

Memorandum



Date: February 14, 2012

To: Jack Osterholt, Interim Director
Department of Business Development

From: Milton L. Collins, Associate Director
MDAD Minority Affairs Division

Subject: REVISED
MIA Jet Fuel Storage Facility New Hydrant System Pump Stations

MJC

*Project No.
R-126A*

On March 23, 2011, a fire occurred at the Miami International Airport (MIA) Jet Fuel Storage Facility (FSF) which destroyed the north bank of pumps along with other fire suppression capabilities. MIA was not able to supply fuel to the aircrafts for six (6) days, causing a severe disruption to this critical operation. The Miami Dade Aviation Department (MDAD) was able to restore delivery of jet fuel to the Fuel Hydrant System via a temporary bank of six (6) pumps and two filters to reestablish and support the MIA fueling operations.

This temporary system lacks appropriate fire protection and all other fueling components to make it 100% safe, reliable, and is not a permanent solution to the fueling needs at MIA. In order to mitigate the emergency, the Airlines Community, MDAD, MDFD and other local and Federal agencies decided to move forward under Emergency conditions and issued an emergency management agreement to Allied Fueling of Miami Inc. ("Allied") to commence immediately on the design and reconstruction of the permanent pumping facilities. Allied currently performs management services to MIA's fuel farm pursuant to the existing Fuel Facilities Management Agreement at MIA, Project No.MDAD-05-03. The emergency agreement with Allied requires that services requested by MDAD must be in accordance with Tenant Airport Construction Reimbursable (TAC-R) guidelines. The reimbursable amount authorized for these respective services under the emergency agreement to Allied totals \$24,742,328.

Currently, the design has been completed, all permits have been pulled and approved by B&Z, and the construction is 80% overall complete. Therefore the MDAD Minority Affairs Division has reviewed and concluded that this project has "No Measures."

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**MIAMI INTERNATIONAL AIRPORT JET FUEL STORAGE FACILITY
NEW HYDRANT SYSTEM PUMP STATIONS PROJECT
SCOPE OF WORK**

Notes:

1. Construction of aircraft hydrant fueling systems shall be accomplished by experienced, knowledgeable and skilled aircraft hydrant fuel system installing contractors.
2. Contractors shall have experience working in a large fuel storage facility in and around active jet fuel tanks, piping and pumps, which shall remain operational for the entire duration of the project.
3. Fire protection systems shall be installed by a certified fire protection installing contractor.

SCOPE OF WORK OF CONTRACTOR GONZALEZ & SONS EQUIPMENT, INC.

1. Demolish and dispose of existing piping, pavements and structures as required to construct two pump stations.
2. Construct a North Pump Station consisting of three pump houses, two filter houses, one power center building, one FPL vault building and one generator foundation pad with related drainage, grading, roadways, grass areas, and air conditioning and ventilation systems.
3. Construct a South Pump Station consisting of three pump houses, two filter houses, one power center building and one FPL vault building with related drainage, grading, roadways, grass areas, air conditioning, ventilation and eye wash station.
4. Construct two underground, double wall jet fuel piping systems, one at the North Pump Station and one at the South Pump Station. Provide all pipes, fittings, valves, pipe anchors, supports, protective coatings, accessories, monitoring wells, backfill and compaction required to construct the new piping systems.
5. Provide sheet pilings and tremie seals as required to install the new underground jet fuel piping.
6. Provide five (5) new jet fuel transfer pumps, four (4) new jet fuel filter/separators and related aboveground single wall piping, valves, control valves, strainers and accessories at the North Pump Station.
7. Provide five (5) new jet fuel transfer pumps, four (4) new jet fuel filter/separators and related aboveground piping, valves, control valves, strainers and accessories at the South Pump Station.
8. Provide new supports to existing 20-inch jet fuel pipeline traveling from Dike Area 4 to Dike Area 2.
9. Provide surveying and testing laboratories services as required to perform the Work.
10. Perform all necessary checkouts, calibrating, testing, flushing, start-up and commissioning of all new piping, equipment and facilities provided under this contract.

**MIAMI INTERNATIONAL AIRPORT JET FUEL STORAGE FACILITY
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11. Provide the services of qualified manufacturers' field service engineers to provide technical assistance to contractor during construction and for testing, calibrating, startup, and commissioning of the new equipment and facilities, and to train Owner's personnel in the operation and maintenance of new equipment provided under this contract.
12. Provide temporary fencing, jersey barricades, lighting and appropriate signage as required for project safety, security and maintenance of traffic during construction.

SCOPE OF WORK OF CONTRACTOR CHEROKEE ENTERPRISES, INC.

1. Provide a utility locate in the areas of proposed excavation to identify existing underground utilities and debris.
2. Excavate trenches for others to install underground jet fuel piping, electrical conduits and grounding.
3. Stockpile test and disposal of excavated soils.
4. Removal and disposal of free floating product in excavated areas.
5. Secure a dewatering permit, dewater for others to install underground jet fuel piping, temporary storage and disposal of removed groundwater.
6. Install cathodic protection anodes supplied by Universal Technical Resource Services (UTRS) to protect underground jet fuel piping.
7. Provide tie-in of new jet fuel discharge piping installed by others at the South Pump Station to existing 14" and 16" underground jet fuel pipelines.
8. Provide and place concrete to encase electrical duct banks.
9. Backfill and compact excavations made for cathodic protection work, electrical duct banks and piping tie-in at South Pump Station.
10. Perform pneumatic and hydrostatic tests on all new jet fuel piping being provided by CEI and others.
11. Provide surveying and testing laboratories services as required to perform the Work.
12. Replace damaged pavement and grass in construction areas.
13. Support as required the checkouts, calibrating, testing, flushing, start-up and commissioning of all new piping, equipment and facilities being provided.
14. Provide temporary fencing, jersey barricades, lighting and appropriate signage as required for project safety, security and maintenance of traffic during construction.

**MIAMI INTERNATIONAL AIRPORT JET FUEL STORAGE FACILITY
NEW HYDRANT SYSTEM PUMP STATIONS PROJECT
SCOPE OF WORK**

SCOPE OF WORK OF CONTRACTOR DYNALECTRIC COMPANY

1. Provide all new wiring, cables, underground and aboveground conduits, racks, duct banks, junction boxes, building and area lights, light poles, lightning and surge protection, grounding and all other electrical devices and equipment required to construct the new North and South Pump Stations and communicate with the facility's Hansa automation system in accordance with the Contracts Documents.
2. Provide new underground duct banks from the Florida Power & Light (FPL) electrical points of service to the new FPL vault buildings at the North and South Pump Stations. FPL will provide the wiring to the vaults and the equipment at the vaults.
3. Provide Emergency Fuel Shut Off (EFSO) system for the new pumps and valves and connect to the existing EFSO system at the facility.
4. Provide motor control centers, switchgear, panel boards, transformers and related accessories for the new power centers and equipment at the North and South Pump Stations.
5. Provide ten new variable frequency controllers to operate the new jet fuel transfer pumps. Five variable frequency controllers will be located at the North Pump Station and five are to be located at the South Pump Station.
6. Provide two new diesel engine driven 1500 kw electrical power generators with integral fuel tanks. One generator is to be located at the North Pump Station and one generator is to be located at the South Pump Station.
7. Provide electrical arc-flash study for the new electrical systems at the North and South Pump Stations.
8. Perform all necessary checkouts, calibrating, testing, start-up and commissioning of all new electrical equipment and facilities provided under this contract.
9. Provide the services of qualified manufacturers' field service representatives to provide technical assistance during construction and for testing, calibrating, startup, and commissioning of the new electrical equipment, and to train Owner's personnel in the operation and maintenance of the new electrical equipment provided under this contract.

SCOPE OF WORK OF CONTRACTOR UNIVERSAL TECHNICAL RESOURCE SERVICES, INC. (UTRS)

1. Provide an impressed current cathodic protection system(s) for underground jet fuel pipelines.

**MIAMI INTERNATIONAL AIRPORT JET FUEL STORAGE FACILITY
NEW HYDRANT SYSTEM PUMP STATIONS PROJECT
SCOPE OF WORK**

SCOPE OF WORK OF CONTRACTOR NATIONAL FIRE PROTECTION, LLC

1. Furnish, install and commission fire suppression systems for the five new buildings in Dike Area 5 (North Pump Station) and five new buildings in Dike Area 2 (South Pump Station).
2. Include all work necessary to provide completely functioning fire suppression systems for these ten buildings, including but not limited to the fire suppression within the buildings, the underground supply to the buildings and connection to the existing system within the pump house and to the existing foam proportioner system as shown on the Contract Drawings.
3. Removal of existing and furnishing, installing and commissioning the remaining components in the Contract Documents, including but not limited to hose reel demolition, butterfly valve replacement, and abandoned riser demolition.
4. Trenching and backfilling as required for underground piping installation.

SCOPE OF WORK OF CONTRACTOR GTSI

1. Perform a review of existing site conditions and existing construction records.
2. Prepare plans and calculations, and submit to the Miami-Dade County Permitting, Environment and Regulatory Affairs Department (PERA) to obtain a construction permit for the security system being provided.
3. Prepare cut sheet package of equipment being provided and submit to Owner.
4. Replace and upgrade the existing wireless infrastructure at eleven (11) cameras and four (4) head end locations (where GTSI will tie into the MDAD Network) to a Clear Site mesh wireless solution. In conjunction with this effort, existing Pelco cameras damaged by a recent fire will be replaced.
5. Supply and install a 64 channel NICE NVR with 14TB of external raid storage.
6. Supply and install four (4) NVE-1008 Encoders.
7. Provide two (2) days of training (16 hours total).
8. Supply and install NICE software.
9. Furnish and install eight (8) 37 ft. square tapered concrete poles with embedment as required by the wind load calculations.
10. Install equipment on poles.

MIAMI INTERNATIONAL AIRPORT JET FUEL STORAGE FACILITY
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SCOPE OF WORK

11. Furnish and install eight (8) 24"x24"x10" Nema 3R control enclosures. Each enclosure will be provided with twenty (20) amps Control Circuit Breaker, an SPD Device for the Power side, a quad Power receptacle and terminal Blocks.
12. Site Work. Excavation, Backfilling and Compaction.
13. Power Distribution to Cameras Control Enclosures. Underground PVC Conduit with copper conductors.
14. Fiber Link between the two (2) new poles located in the opposite corners of the future construction area and the administration building. Underground PVC conduit with twelve (12) strands multimode armored fiber cable. Includes all fiber termination and testing.
15. Fiber Link between the existing maintenance Building and adjacent pole located outside the property on the Northwest corner of the Road. Underground PVC conduit with twelve (12) strands multimode armored fiber cable. Includes all fiber termination and testing.
16. Extend Fiber Link from existing concrete pole inside Gate #15 to new concrete pole outside the perimeter road. Underground PVC conduit with twelve (12) strands multimode armored fiber cable. Includes all fiber termination and testing.

MIA Jet Fuel Storage Facility New Hydrant System Pump Stations Project
Minority Participation

CONTRACTOR	GENERAL SCOPE OF WORK	MIAMI-DADE COUNTY MINORITY SUBCONTRACTORS	CONTRACT AMOUNT \$	MINORITY PARTICIPATION %	MINORITY PARTICIPATION GOAL \$
Cherokee Enterprises	Dewatering, soil removal, testing and disposal	Metro Trucking, Inc. (This is a fill provider, not contractor)	\$3,759,511	2	\$75,190
Dynalectric Company	Electrical work	None	\$5,127,121.00	0	\$0
GTSI	Security TV Cameras	Security101 Dato Electric	\$537,862.00	31	\$166,459
				18	\$98,805
Gonzalez & Sons	Jet fuel piping and pumping systems	GPE Engineering (Civil work) Champion painting Dade builders (Block)	\$14,374,441	2	\$275,000
				1	\$155,000
				1	\$86,000
HCNA	Automation	None	\$496,870	0	\$0
National Fire Protection	Fire protection	None	\$247,583	0	\$0
UTRS	Cathodic protection	None	\$198,940	0	\$0
		TOTALS	\$24,742,328	3.46	\$856,454