



M E M O R A N D U M

TO: Hon. Chairperson Barbara Carey-Shuler, Ed.D.
and Members, Board of County Commissioners

DATE: April 27, 2004

FROM: George M. Briggs
County Manager

SUBJECT: Contract Award:
ASR Ultraviolet Disinfection
System at the West and
Southwest Well Fields, Contract
No. W-847

The attached Recommendation for Award for Contract W-847 between **United Engineering Corporation** and Miami-Dade County has been prepared by the Miami-Dade Water and Sewer Department (Department) and is recommended for approval.

PROJECT: ASR Ultraviolet Disinfection System at the West and Southwest Well Fields

PROJECT NO.: W-847

PROJECT LOCATION: West Well Field - 7200 SW 172nd Avenue
Southwest Well Field - 12350 SW 80th Street
Miami-Dade County, Florida

COMMISSIONERS AND DISTRICT NOs.: Joe A. Martinez - 11
Javier D. Souto - 10

PROJECT DESCRIPTION: This project is necessary in order to comply with the water quality requirements of the Safe Drinking Water Act (Act). The Act requires that water being injected into the Upper Floridian Aquifer through the Aquifer Storage and Recovery (ASR) wells meet primary drinking water standards at all times prior to injection. Currently, the Department operates the ASR wells under restricted permit conditions, which does not allow injection during the wet season because of water quality concerns. The operation of the Ultraviolet (UV) light disinfection system will ensure that the water to be injected meets water quality standards at all times, allowing a more efficient operation of the ASR wells.

The project consists of constructing two raw water UV light disinfection systems for the Miami-Dade Water and Sewer Department's existing ASR wells, one system is for the West Well Field located at 7200 SW 172nd Avenue, and the other one is for the Southwest Well Field, located at 12350 SW 80th Street, both in Miami-Dade County, Florida. Partial funding for the project in the amount of \$800,000 has been obtained from the South Florida Water Management District and the Environmental Protection Agency.

The work of this project includes furnishing all material, labor and equipment necessary to construct a 16 feet high by 48 feet wide by 52 feet long concrete block structure (CBS) UV Building at the Southwest Well Field, and a 16 feet high by 48 feet wide by 44 feet

PROJECT DESCRIPTION:
(continued)

long CBS UV Building at the Southwest Well Field, each building including the following: built-up roofing; roll-up steel door; exhaust fan; HVAC system; a UV Treatment Room with ultraviolet disinfection equipment, associated controls and instrumentation, piping, valves, fittings and electromagnetic flow-meters; an Electrical Room consisting of lighting, electrical power equipment, and a pad-mounted transformer. Part of the work in each one of the sites also includes yard piping; miscellaneous improvements to the site; retrofitting existing structures; all associated structural, electrical, and mechanical work; and any other appurtenant and miscellaneous items and work for complete and functional installations.

BID DATE:

June 9, 2003

**ESTIMATED NOTICE TO
PROCEED DATE:**

May 2004

COST ESTIMATE:

\$4,020,000

CONTRACT AMOUNT:

\$3,774,200

FUNDING SOURCE:

South Florida Water Management Districts Grant for \$300,000
Environmental Protection Agency Grant for \$500,000
Water-Revenue Bonds Series 1995, Fund No. 60

**INSPECTOR GENERAL FEE:
(1/4 OF ONE PERCENT)**

\$9,435.50

**INDEPENDENT PRIVATE SECTOR
INSPECTOR GENERAL (IPSIG):**

Provision Included

**ALLOWANCES/CONTINGENCY
ORDINANCE NO. 00-65:
(EXPLANATION)**

This project is an expansion of existing facilities in the water system, and therefore, a ten percent (10%) Allowance Account is permissible, per Ordinance No. 00-65. This Allowance Account will be used by the Department for unforeseen conditions, construction changes, additional work or materials not covered by any proposal item, and for quantity adjustments.

CONTRACT PERIOD:

180 consecutive calendar days for both sites

ART IN PUBLIC PLACES:

Not Applicable

**MANDATORY CLEARING
HOUSE:**

Provision Included

PRIME CONTRACTOR:

United Engineering Corp.

MIAMI-DADE COUNTY
CONTRACT AWARD RECOMMENDATION
CONSTRUCTION PROJECT

To: County Manager's Office

Date: January 29, 2003

Project Title: ASR Ultraviolet Disinfection System at the West and Southwest Well Fields, Contract No. W-847

Location: West Well Field - 7200 SW 172nd Avenue
Southwest Well Field - 12350 SW 80th Street
Miami-Dade County

Commissioners and District Numbers: Joe A. Martinez - 11
Javier D. Souto - 10

Cost Estimate: \$4,020,000

Recommended Amount of Contract: \$3,774,200

Allowance Account Explanation:

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Contract Period: 180 consecutive calendar days for both sites

Art in Public Places Contribution: Not Applicable

Community Small Business Enterprise Goal Approved And Achieved: 14% Participation Goal in the Review Committee Meeting of October 30, 2002. Achieved - 14%

Number of bids received: 3 (Tabulation Attached)

It is recommended that a Contract be awarded to:

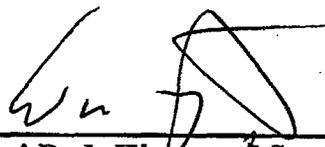
Firm Name: United Engineering Corp.
Address: 405 SW 148 Ave., Suite No. 2, Davie, FL 33325

Explanation: (Description of need for project; details of project; explanation of bid).

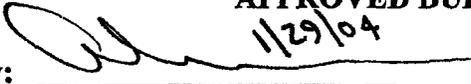
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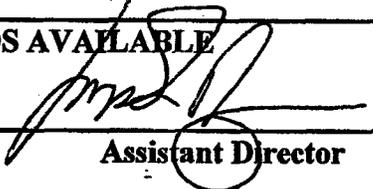
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Signature: 
Director, Miami-Dade Water and Sewer Department

APPROVED BUDGET CERTIFICATION FUNDS AVAILABLE

By:  1/29/04
Construction Contracts Section

By: 
Assistant Director

MIAMI-DADE WATER AND SEWER DEPARTMENT
MIAMI-DADE COUNTY

ASR ULTRAVIOLET DISINFECTION SYSTEM
WEST AND SOUTHWEST WELL FIELDS
CONTRACT NO. W-847

ESTIMATE: \$4,020,000

United Engineering Corporation Myers Construction Group, Inc. Bid Date: June 9, 2003
405 SW 148th Ave. 6710 S.W. 80 Street, #102 Widell, Inc.
Davie, FL 33325 Miami, FL 33143 Ft. Lauderdale, FL 33314

No.	Description	Quant.	Total	
			Aggr. Sum	Total
1.	Furnishing & installing all necessary materials, equipment, supplies & all associated work including labor, excavating, installation, demolition, salvaging, taxes, insurance, bonds general and administration, testing, start-up & all other miscellaneous costs, overhead warranties & profit for the project complete including start-up, testing & warranty of all equipment, except for those costs specifically included in the other Base Bid items in this schedule prices		\$ 2,540,000.00	\$ 2,455,830.00
2.	Furnishing & delivering to the Owner all necessary materials, equipment, supplies & license fees associated with the provision of the Ultraviolet Disinfection Equipment, complete as specified in Section 11365 of the Specifications & as shown on the drawings		800,000.00	1,072,778.00
3.	SUB-TOTAL (Items 1 and 2)		\$ 3,340,000.00	\$ 3,528,608.00
4.	All costs of required permits, fees, impact fees, inspections, if ordered by the Engineer, the sum of 3% of SUB-TOTAL, Item 3 (.03 X Item 3)		100,200.00	105,858.24
5.	Unforeseen conditions, for minor construction changes & quantity adjustments, if ordered by the Engineer, the sum of 10% of SUB-TOTAL, Item 3, (.10 X Item 3)		334,000.00	352,860.80
6.	TOTAL BID (Items 3, 4 and 5)		\$ 3,774,200.00	\$ 4,148,230.00