PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

3H-2

Meeting Date: April 21, 2009 | **[X]Consent** | **[ ]Regular** | **[ ]Ordinance** | **[ ]Public Hearing**

Department: Facilities Development & Operations

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 13 for $152,701 with Gartek Engineering Corporation (R2008-1304) for Engineering Design Services for replacement of all four existing Chillers in the Judicial Center Central Energy Plant.

Summary: Gartek Engineering will provide engineering necessary to develop plans and specifications for replacement of four (4) 650 ton water cooled centrifugal type chillers that provide the air conditioning of the Judicial Center and the State Attorney/Public Defender Buildings. Design will include any electrical and plumbing associated with replacement of the chillers including plans for orderly staging of the work to insure adequate work environment is maintained during the replacement. All funding for this project is from the five year Countywide Repair, Replace and Renovate account. The SBE participation for this CSA. is 100%. The total engineering duration is 180 days. (FD&O Admin) District 7 (JM)

Background and Justification: The existing chillers have been in service for almost 20 years and are at the end of their useful life. The chiller refrigerant used has been out of production since 1995 and availability has diminished, continually increasing the expense. One of the units is beyond repair and out of service. Two others were also recently out of service but are now operational again. The repairs have been expensive and the units have historically failed again after previous repairs. Under peak summer conditions, up to three chillers are required to maintain proper comfort levels in the buildings. New chillers would be significantly more energy efficient.

Attachments:
1. Consultant Services Authorization No.13
2. Engineer's Proposal
3. Budget Availability Statement

Recommended by: _____ 3/31/09
Department Director **Date**

Approved by: _____ 4/13/09
County Administrator **Date**

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Year	2009	2010	2011	2012	2013
Capital Expenditures	$152,701.00	0	0	0	0
Operating Costs	0	0	0	0	0
External Revenues	0	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match (County)	0	0	0	0	0
NET FISCAL IMPACT	$152,701.00	0	0	0	0
# Additional FTE Positions (Cumulative)	—	—	—	—	

Is Item Included in Current Budget? Yes X No _

Budget Account No: 3804-411-B386-4907 (Ad Valorem, Maintenance)

Reporting Category _____

B. Recommended Sources of Funds/Summary of Fiscal Impact:

C. Departmental Fiscal Review: _____

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development & Control Comments:

4.8.09
OFMB 4/8/09 4/8/09

Contract Dev. and Contro 4/9/09

This item complies with current County policies.

A. Legal Sufficiency:

Assistant County Attorney

A. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.

CONSULTANT SERVICES AUTHORIZATION

GARTEK ENGINEERING CORPORATION
Electrical/Mechanical Annual Consultant

Gov't Center CEP – Chiller Replacement Design
PROJECT NO. 09508
DISTRICT 7

This consultant services authorization is for Engineering Services for the Gov't Center Central Energy Plant (CEP) located at 400 Quadrille, West Palm Beach.

Professional services shall include engineering and plans for replacement of the four Chillers (including pumps and electrical) servicing the Judicial Center and the SA/PD.

This A/C equipment has reached the end of its useful life and has become an expensive maintenance item. Failure of this equipment will severely impact the employees of these Buildings.

SBE participation for this Authorization is 100%. When added to the Consultant's participation to date, the resulting SBE participation is 100%.

ATTACHMENT # 1

CONSULTANT SERVICES AUTHORIZATION

GARTEK ENGINEERING CORPORATION
Electrical/Mechanical Annual Consultant

Gov't Center CEP – Chiller Replacement Design
PROJECT NO. 09508
DISTRICT NO. 7

THIS AUTHORIZATION NO. 13 to the Contract dated 7/22/08 (R-2008-1304) between Palm Beach County and the Consultant identified herein is for the Consultant Services described in Item 3 of this Authorization.

1. **CONSULTANT:** **GARTEK ENGINEERING CORPORATION**
7210 SW 39 th Terr.
Miami, FL 33155

2. **Services completed to date:** Not applicable. This authorization is for a new project.

3. **Description of Services to be provided by Consultant:** Professional services shall include engineering and plans for replacement of the four Chillers (including pumps and electrical) servicing the Judicial Center and the SA/PD, as detailed on the attached proposal dated March 11, 2009.

4. **History:** CSA #12 for $28,665.44 was approved on 2/27/09 for an evaluation of the existing chillers, motor starters, and main power supply to determine the cause of equipment failures and develop a scope of work for the repair/replacement of the equipment.

5. **Time of Commencement:** Consultant shall begin work promptly on the requested services upon receipt of this executed document which shall constitute official **"Notice to Proceed".**

6. **Compensation:** The compensation to be paid to the Consultant for the requested services shall be:

   Not-To-Exceed charge of **$152,701.00.**

7. **This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed to termination date, together with reimbursable expenses (if applicable) then due.**

   Consultant agrees to waive any and all claims for lost profits or anticipated future profits in the event of a termination with or without the cause under this Contract.

8. **EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED,** all other terms and conditions of the original Contract remain in full force and effect.

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms and conditions of the aforementioned Contract.

COUNTY

ATTEST:
Sharon R. Bock, Clerk & Comptroller

By:_____
Deputy Clerk

PALM BEACH COUNTY
BOARD OF COUNTY
COMMISSIONERS

By:_____
John F. Koons, Chairman

WITNESS:

Lucy Munoz

Lucy Munoz, Bookkeeper
Name (type or print)

CONSULTANT

By: _____
Name: Mel F. Garcia, P.E.

Title: Vice - President

Date: March 26, 2009

Approved as to Form and Legal Sufficiency

_____
Assistant County Attorney

Approved as to terms and conditions

a/s Anthony Wolf
Director - F D & O

Gartek

March 11, 2009

VIA FACSIMILE
(561) 233-2052

Palm Beach County
Facilities & Development Operations - PPIG
2633 Vista Parkway
West Palm Beach, Florida 33411

Attn. Mr. Allen Padilla - Project Manager PPIG

Re: PBC Main Courthouse Central Energy Plant – Chiller Replacement

Dear Allen:

Gartek Engineering Corporation is pleased to submit our proposal for Engineering Design Services for the replacement of the existing Chillers # 1, 2, 3 & 4 located at the Main Courthouse Center Central Energy Plant in West Palm Beach according to our report of January 9, 2009.

Our proposal fee is based on 8% of the Construction Cost as outlined below. Our fee of $152,701 can be further divided into:

Services up to the time a permit is secured	$ 122,161.00
Services during construction	$ 30,540.00
Total.....	**$ 152,701.00**

Estimates of Probable Construction Cost

Replacement of Chillers 1&2 (Step 4 in Gartek Report)

New Chiller (repl chl #1)	$ 222,000			
Remove Chiller #1	$ 30,000			
New solid State starter	$ 101,000	(Note 1)		
Jumper Truck	$ 6,700			
Gas Detection	$ 20,000		$ 379,700	
New Chiller (repl chl #2)	$ 222,000			
Remove Chiller #2	$ 30,000			
New solid State starter	$ 101,000	(Note 1)	$ 353,000	
Subtotal construction costs				$ 732,000

Gartek Engineering Corporation
Miami office: 7210 SW 39 Terrace Miami FL 33155 Tel: 305-266-8997 Fax: 305-264-9496
Delray office: 4723 W Atlantic Av Suite A-18 Delray FL 33445 Tel: 561-637-8907 Fax 561-637-8959
www.gartek-engineering.com

ATTACHMENT # 2

Gartek

March 11, 2009
Mr. Allen Padilla
Main Courthouse Central Energy Plant – Chiller Replacement

Replacement of Chillers 3&4 (Step 5 in Gartek Report)

New Chiller (repl chl #3)	$ 244,000				
Remove Chiller #3	$ 33,000				
New solid State starter	$ 111,100	(Note 1)	$ 388,100		
New Chiller (repl chl #2)	$ 244,000				
Remove Chiller #2	$ 33,000				
New solid State starter	$ 111,100	(Note 1)	$ 388,100		
Subtotal construct. costs				$ 776,200	
SUBTOTAL				**$ 1,508,900**	
Contingencies				15% $ 226,335	$ 1,735,235
OH & P				10%	$ 173,524
TOTAL					**$ 1,908,759**

Note 1: For the purposes of estimating the fee, I used the Eaton solid State starter at an additional cost of $60,000 ($101K minus $41K). See more information on the Gartek Report regarding this item.

Please review our proposal and if acceptable, kindly issue the necessary authorization.

Sincerely,

GARTEK ENGINEERING CORPORATION

Mel F. Garcia, P.E.
Vice President

MFG:lam

Gartek Engineering Corporation
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Gartek

CEP CHILLER REPAIR/REPLACEMENT

Observations, Findings and Recommendations

for

Palm Beach County
Main Courthouse CEP
215 North Olive Avenue
West Palm Beach, FL 33401

January 9, 2009

Gartek Engineering Corporation
7210 S.W. 39th Terrace / Miami, Florida 33155 / Tel.(305) 266-8997 / Fax (305) 264-9496
4723 W. Atlantic Ave., Suite A18, Delray Beach, FL 33445 / Tel.(561)637-8909 / Fax (561)637-8959
www.gartek-engineering.com

Gartek

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B - Eaton report
C - Analysts Inc., report

Gartek Engineering Corporation
7210 S.W. 39th Terrace / Miami, Florida 33155 / Tel.(305) 266-8997 / Fax (305) 264-9496
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Gartek

CEP CHILLER REPAIR/REPLACEMENT

Observations, Findings and Recommendations

1. Introduction

This Report presents observations and findings related to the present chiller conditions at the Palm Beach County Main Courthouse Central Energy Plant (CEP). The information contained herein was obtained from interviews with staff, equipment logs, investigations performed by York technicians, testing and inspection performed by Eaton technicians, and by Gartek Engineering Corporation staff investigation. See References at end of Report.

1.1. Background

The CEP is comprised of four (4) 650 ton water cooled centrifugal type chillers. The CEP serves the Main Courthouse and the State Attorney's Office buildings. Load data indicates that under peak summer conditions up to three chillers are required to maintain proper comfort levels in the buildings served by this CEP. Presently, only Chiller #2 remains in operation. Chillers #1, #3 and #4 are in various states of malfunction and require repair and/or replacement. Although Chiller #2 marginally carries the load during cooler winter months, it will not have the capability to support the rapidly approaching hotter summer months. A failure of Chiller #2 at this time would render both buildings un-occupiable. Given the high profile functions that take place in these two buildings this would become an unacceptable scenario.

The thrust of this report is to identify the repairs necessary to bring one of the non-functioning chillers back in service in the shortest possible time-frame. Additionally, the report presents alternatives and recommendations to remedy the present condition.

In general, the condition of chillers #1, #3 and #4 is as follows:

a. **Chiller #1** is nearly 20 years old and has a seized compressor rotor. Parts of the electrical starter have been removed for use on other chillers.

b. **Chiller #3** is nearly 20 years old and has burned the autotransformer starter during two different attempts at start up (two autotransformers have been ordered and are scheduled for delivery January 26, 2009).

c. **Chiller #4** is nearly 20 years old and single phased during a shut-down for scheduled maintenance; the motor windings burned, the main contactor was damaged, and the autotransformer shorted (the motor has since been rewound and is at the site).

The estimated costs provided in the report were compiled over a very short time span and as such represent a best effort on the part of suppliers and manufacturers to assist in providing these costs. Ultimately, market conditions will dictate the final costs. Estimated costs do not include allowance for after hours work or contingencies.

2. Summary

We recommend the followings steps be considered by Palm Beach County immediately:

Step 1: Place a purchase order for two (2) new Chillers.

Our recommendation is based on a two phase approach that will ultimately lead to an orderly replacement of the existing chillers. Justification is provided below under "Basis for Replacement". To this end, and given the lead time involved in the delivery and installation of major equipment, it is imperative to immediately place an order for two (2) new 650 tons centrifugal chillers in order to ensure delivery and installation before the summer cooling load begins to rise.

Estimated costs are identified under Step 4 below.

Step 2 (Or concurrent with Step 1): Repair Chiller #3 and Chiller #4 to be able to place back in service:

- Chillers #3 and #4 are available to be placed back in service.
- Chiller #3 has been idle since December 10, 2008. We recommend that the motor of chiller #3 be completely tested and repaired as necessary, under Step 2, in preparation for Step 3.
- Chiller #4 has been idle since September 17, 2008. Our recommendation is to place Chiller #4 back in service by performing the following functions.

1. Install the already rewound motor back on chiller #4.

   Estimated Cost: $ 2,500

2. At Chiller.
   a. Replace oil and filters, check oil pump for proper operation and perform general one-year maintenance prior to placing in service.
   b. We have assumed that leaks are minor; chiller will not be tested for leaks.
   c. Check and adjust refrigerant charge as required.
   d. Verify operation of inlet vanes to confirm chiller starts unloaded.
   e. Verify that BMS control system set up does not initiate chiller loading prematurely. We want to confirm that the chiller autotransformer starter has already placed the motor on full voltage and that motor has reached full RPM before BMS control system initiates chiller loading. Please oblige though this may seem absurd.
   f. Verify chilled water and condenser water flow switches are operating properly.
   g. Verify chiller safeties are operating properly and that no safety shutdowns have occurred. To this end, and because chiller is de-energized, please provide temporary electrical supply to control panel to extract safety shut-down information from electronic log.

   Estimated Cost (excludes refrigerant recharge) $ 5,000

3. Purchase new electrical gear for CH-4 to replace failed existing (Eaton has indicated a 7 day delivery period which is sooner than the present delivery date of the already ordered replacement auto transformer starters).

a.	New autotransformer	$17,200
b.	New Ampguard main contactor including Vacuum interrupters	$31,600
c.	Eaton Service engineer during start-up	$ 3,200
d.	Equipment installation (by others)	$ 5,000
e.	Gartek (Eaton) subcontractor fee	$ 5,700
	Subtotal	$62,700

Estimated cost of Step 2 $ 70,200

Step 3: Place Chiller #3 as stand-by or back up of Chiller #2 & Chiller #4:

The purpose of this step is to make chiller #3 available as a back-up to #2 and #4, to allow rotation among the chillers, and to have the required capacity for summer peak loads in case Step 4 is delayed.

1. Install motor of chiller #3 Estimated cost: $3,500

2. At chiller #3 check, verify and adjust as needed.
   a. Chiller has been recently provided with a yearly maintenance. Check and adjust refrigerant charge as required. Verify condition of oil and filters, check oil pump for proper operation. We have assumed that leaks are minor; chiller will not be tested for leaks. Cost of this item is included in the already existing maintenance contract with Precision Air.
   b. Verify operation of inlet vanes to confirm chiller starts unloaded. Verify that BMS control system set up does not initiate chiller loading prematurely. We want to confirm that the chiller autotransformer starter has already placed the motor on full voltage and that motor has reached full RPM before BMS control system initiates chiller loading. Please oblige though this may seem frivolous.
   c. Verify chilled water and condenser water flow switches are operating properly.
   d. Verify chiller safeties are operating properly and that no safety shutdowns have occurred. To this end, and because chiller is de-energized, please provide temporary electrical supply to control panel to extract safety shut-down information from electronic log.

   Estimated Cost (excludes refrigerant recharge) $ 5,000

3. Electrical gear.
   a. Install autotransformers (already ordered, to be delivered January 26, 2009. Installation price is included in order).
   b. Re-use existing Ampguard contactors. Install new control relays and timers per Eaton's field investigation and recommendation. $ 2,500
   c. Eaton service engineer during start-up $ 3,200
   d. Gartek subcontractor fee $ 600

   Subtotal $ 6,300

Estimated cost of Step 3 $ 14,800

Step 4: Replacement Sequence:

This step initiates the orderly replacement of the existing chillers

1.	One new chiller (ordered under Step 1) to replace existing Chiller #1.	$ 222,000
2.	Removal of Chiller #1 and installation of new Chiller	$ 30,000
3.	New solid state starter (See Note 1 below)	$ 41,000
4.	New RVSS Jumper Truck (see Note 1 below)	$ 6,700
5.	The existing CEP will require a new refrigerant gas detection and purge exhaust	$ 20,000
6.	Gartek design fee and services during construction (See Note 2 below)	$ 44,000
	Subtotal First Chiller	$363,700
7.	One new chiller (ordered under Step 1) to replace existing Chiller #2.	$222,000
8.	Removal of Chiller #2 and installation of new Chiller	$ 30,000
9.	New solid state starter including taxes and Eaton's service engineer charges (See Note 1 below).	$ 41,000
	Subtotal Second Chiller	$293,000
	Total for Step 4	**$656,700**

Notes:

1. York has provided a cost of $23,000 for a York supplied solid state starter. York's starter is stand alone type which will require reworking of the 4.16 kV distribution so Gartek has estimated an additional $18,000 for installation of the York starter and reworking the distribution system (this would need to be further studied under the design phase) for a total cost of $41,000. At present, we have requested York to establish if their starter can be made to fit in the existing MCC. Eaton's starter can be installed in the existing MCC cubicle with minor reworking at a cost of approximately $101,000. Eaton offers a jumper truck which may be used as an emergency by-pass of the solid state starter to allow across the line starting in case of emergency. One jumper truck can be used for all four MCC Eaton solid state starters. The cost of the truck is not included in the above $101,000.

2. Gartek's fees are based on replacement of two chillers under Step 4.

Step 5: Place a purchase order for two (2) new Chillers:

Place order for two new chillers and solid state starters to replace chillers #3 and #4. We recommend the replacement take place during the winter period of 2009-2010. The order would need to be placed during early fall of 2009. We have added 10% to the costs indentified on Step 4.

This step initiates the orderly replacement of the existing chillers

1.	One new chiller to replace existing Chiller #1.	$244,000
2.	Removal of Chiller #1 and installation of new Chiller	$ 33,000
3.	New solid state starter (See Note 1 below)	$ 41,000
4.	Gartek design fee and services during construction (See Note 2 below)	$ 46,600
	Subtotal First Chiller	$264,600
5.	One new chiller (ordered under Step 1) to replace existing Chiller #2.	$244,000
6.	Removal of Chiller #2 and installation of new Chiller	$ 33,000
7.	New solid state starter (See Note 1 below)	$ 41,000
	Subtotal Second Chiller	$318,000
	Total for Step 5	**$682,600**

Notes:

1. York has provided a cost of $23,000 for a York supplied solid state starter. York's starter is stand alone type which will require reworking of the 4.16 kV distribution so Gartek has estimated an additional $18,000 for installation of the York starter and reworking the distribution system (this would need to be further studied under the design phase) for a total cost of $41,000. At present, we have requested York to establish if their starter can be made to fit in the existing MCC. Eaton's starter can be installed in the existing MCC cubicle with minor reworking at a cost of approximately $101,000. Eaton offers a jumper truck which may be used as an emergency by-pass of the solid state starter to allow across the line starting in case of emergency. One jumper truck can be used for all four MCC Eaton solid state starters. The cost of the truck is not included in the above $101,000.

2. Gartek fee's are based on replacement of two chillers under Step 5.

The total cost does not include taxes, contractor OH&P, allowance for after hours work, contingencies, insurance, or engineering fees where required.

3. Recommendations

In preparing our Recommendations, Gartek Engineering Corporation took into consideration the following parameters:

3.1 Repairs

1. The recommendation for temporary repairs is based on placing one additional chiller back on line as quickly as possible.

2. The most desirable candidates for repairs are chillers #3 and #4. Chiller #3 experienced two consecutive electrical failures during attempted start-up and in our opinion would require time consuming electrical investigations and repairs. Chiller #4 was in operation and suffered electrical damage to the starter and motor during a shut-down for routine mechanical maintenance. Therefore, of the two, and from a mechanical perspective, we believe Chiller #4 has the potential for higher reliability and quicker return to service. Considering that the Eaton electrical replacement components can be delivered sooner than the presently ordered autotransformers, repair of Chiller #4 is the better choice. Chiller #1 was ignored at this point due to obvious mechanical failure and possible additional undiscovered related damage.

3. We are recommending that all new components be installed in the MCC starter cubicle of Chiller #4. The electrical event that took Chiller #4 out of service originated with an apparent jammed contactor that created a single phase condition that ultimately burned the motor windings, short-circuited the autotransformer, and destroyed a main contactor vacuum bottle. Significant factors evaluated in the decision to provide new electrical components in the Motor Control Center (MCC) are as follows:

   a. We recommend that a new contactor and vacuum interrupters be purchased for Chiller #4. Salvaging the contactors from the MCC starter cubicles of Chillers #1 or #3 to be used in #4 introduces an unreliability factor which should be avoided given the critical nature of ensuring a second chiller be placed, and remain, on line quickly. This cost of the contactor is approximately $31,600. Eaton has indicated a delivery time of 7 days.

   b. There are two choices available for autotransformer replacement:

      Choice 1. Purchase a new autotransformer from Eaton at a cost of approximately $17,200 for delivery in 7 days, or

      Choice 2. Wait until delivery of the autotransformers already ordered and scheduled for delivery on January 26, 2009 and install one of those.

   We recommend Choice 1.

3.2 Replacement versus repairs

1. The chillers have been in service for almost 20 years. Chiller run clock indicates approximately 60,000 hours on each. In our opinion, these chillers are close to the end of their useful life.
2. Chiller refrigerant is type R11 which has been out of production since 1995. Each chiller holds approximately 1,100 pounds of R-11. Present day cost of the refrigerant is about $15.00 a pound and will become more expensive as availability diminishes.
3. Although we have not received a hard number from York, we estimate that a substantial refurbishment of each chiller to be approximately $120,000. This figure would not include replacement of the heat exchanger which, given the age of the chiller, is a potential source of failure in the future and could add another $40,000 to the refurbishment cost if it were to develop leaks. With a refurbishment scenario the chiller would have many new components; but many components would still remain whose reliability would be in question on a longer term basis. Also, the energy efficiency of the refurbished chiller would be somewhat less than a new chiller.
4. If the existing chiller installation were to be retained, we would recommend that new contactors replace the existing ones in the MCC, along with miscellaneous control relays and timers, for an additional cost of about $42,000.
5. The CEP does not presently incorporate refrigerant gas detection and purge exhaust which would need to be considered in the cost of retaining the existing installation, approximately $20,000.
6. It is possible a rebate incentive may be provided by FPL for chiller replacement. (Gartek will investigate).
7. In summary, the cost of refurbishing one existing chiller and electrical equipment in the existing installation totals about $222,000. Replacement of one existing chiller with a new one and replacement of the existing starters with solid state units totals about $313,000 ($222,000 plus $30,000 plus $41,000 plus $20,000 – see Step 4 breakdown above). The difference is about $91,000. A decision to not replace the aging chillers with new equipment should take into consideration the ramifications of a potential major failure of existing equipment. As stated earlier, R-11 refrigerant has not been in production since 1995.
8. While York chillers have been used for budget pricing, centrifugal chillers from the Trane Company could also be considered. The Trane chillers use refrigerant type R-123 while the York chillers use R-134. Production of type R-123 refrigerant is slated to cease in 2030, however, remaining supplies will be available after 2030. Presently there is no planned phase out of refrigerant R-134. In general, chillers using R-123 are somewhat more energy efficient than those using R-134. The mentioned FPL rebate incentive may be somewhat higher for the more energy efficient R-123 (Trane) chillers.

We trust that the information provided herein is sufficient to establish the proper course of action to quickly repair and return 2 chillers to service to support the imminent summer cooling load while simultaneously addressing the requirement to improve the reliability of the CEP through an orderly replacement of aged equipment.

REFERENCES

Analysts, Inc.
(chiller oil analysis)
3075 Corners North Ct
Norcross, GA 30071
770.448.5235

C.R. Dunn Inc
Electrical Contractor
1202 Pope Lane
Lake Worth, FL 33460-6146
Clyde R. Dunn, Pres.
561.585.2155

EATON Electrical Services & Systems Division
EATON Electrical, Inc.
1700 Powerline Road, Suite J
Deerfield Beach, FL 33442
Rober A. Miller, Sr. Sales Engineer
Sheldon A. Joseph, Sr. Field Service Engineer
954.571.8282 x13

Florida Power & Light Company (FPL)
Governmental Accounts
6001 Village Blvd (CSF/CSE)
West Palm Beach, FL 33407
Max Macon, Exec Cust Mgr
561.640.2577

SQUARE 'D'
(MV Chiller Starters System Voltage Study Report of 01.30.07)
Engineering Services Division
4040 Woodcock Drive, Suite 200
Jacksonville, FL 32207
by: Dale Isley, PE, Sales Engineer
904.348.3150

Johnson Controls
15901 SW 29th Street, Suite 801
Miramar, FL 33027
Willy [Guillermo] Santos, Serv Frm,
Bruce Paul Barberio
South Florida Service Manager
Tom Roberts, Serv Tech
866.825.8860

Johnson Controls
York Division
Jascko Corp.,
Alex Valdes

BUDGET AVAILABILITY STATEMENT

REQUEST DATE: 03/12/09

REQUESTED BY: ALLEN PADILLA AP PHONE: 233-2053

PROJECT TITLE: Govt Ctr CEP Chiller Replacement Design
PROJECT NO.: 09508

WO# 4297321

LOCATION: 400 North Quadrille

LOCATION DESCRIPTION: Energy Plant

BUILDING NUMBER: 599

CONTRACTOR/CONSULTANT NAME: Gartek Engineering Corp.

PROVIDE A BRIEF STATEMENT OF THE SCOPE OF SERVICES TO BE PROVIDED BY THE CONSULTANT/CONTRACTOR: Provide engineering services required to replace the existing chillers located in the Judicial Center Energy Plant

WILL THIS AMENDMENT CHANGE THE ESTIMATED COST OF THE PROJECT?

IF YES, PROVIDE ESTIMATES OF THE NEW COSTS:

CONSTRUCTION	$ 0.00
ARCHITECTURE/ENGINEER	152,701.00
STAFF COSTS*	0.00
EQUIPMENT/OTHER	0.00
CONTINGENCY	0.00
TOTAL	152,701.00

*By signing this BAS your department agrees to these staff costs and your account will be charged upon receipt of this BAS by FD&O. Unless there is a change in the scope of work, no additional staff charges will be billed.

BUDGET ACCOUNT NUMBERS (IDENTIFY ALL SOURCES) FUNDING SOURCE (CHECK ALL THAT APPLY)

FUND:	AGENCY:	ORG:	OBJ:	SUBOBJ:
3804	411	B386	4907	✓

☒ AD VALOREM ☐ OTHER ☐ FEDERAL/DAVIS BACON

13MAR09

SUPPLEMENTAL AGREEMENT TO BE APPROVED BY: Department Director (WO<$50,000)

ANTICIPATED DATE OF APPROVAL: ASAP

BAS APPROVED BY: Kyra Sykes DATE: 3/17/09

ENCUMBRANCE NUMBER: _____

ATTACHMENT # 3