

Lee County Board Of County Commissioners
Agenda Item Summary

Blue Sheet No. 20050780

1. **Action Requested/Purpose:** Approve and authorize the Chairman to sign Change Order No. 2 to the Professional Service Agreement with Burns and Roe Enterprises, Inc. (Lee Contract No. 2821) providing for additional tasks required for design of the WTE expansion project. Total Change Order 'not-to-exceed' amount is \$307,800.00.

2. **What Action Accomplishes:** Will allow the substitution of approx. 20 million gallons per year of reuse water in lieu of potable water saving about \$90,000 per year. Allows B&R to design the FPL interconnect at a cheaper rate rather than FPL. Will expedite the procurement of the 'balance of plant' construction services and provide more accurate bids.

3. **Management Recommendation:** Staff recommends approval of Action Requested.

4. Departmental Category: 8

C8a

5. Meeting Date: June 14, 2005

6. Agenda:

- Consent
- Administrative
- Appeals
- Public
- Walk-On

7. Requirement/Purpose: (specify)

- Statute
- Ordinance
- Admin. Code 4-4
- Other

8. Request Initiated:

Commissioner _____
Department Public Works
Division Solid Waste
By: Lindsey J. Sampson

Lindsey J. Sampson

9. Background:

1. The Professional Service Agreement with Burns and Roe Enterprises included a task for B&R to provide an engineering study investigating the operating and economic impacts of using reuse water instead of potable water for boiler make-up. The study showed acceptable operational conditions with an economic pay-back of approx. 7 years. An additional task is now required to perform the detailed engineering work to implement the change.
2. It was anticipated that FPL would perform design/engineering work for the interconnection equipment at the WTE electrical switch-yard for the additional generator as it had done for the original plant. FPL has now informed the County that it will allow the County to perform this design and construction work. B&R can perform this work cheaper than FPL by a margin of approx. 1.5 to 1.
3. Additional work will be performed by B&R in order to put firm bid quantities on the bid drawings reflecting anticipated requirements for direct purchase vendor equipment. This will provide for better bids from the contractors.
4. The County has requested B&R to perform new design work related to the new cooling tower arrangement because the original plan to use the existing tower sump has been shown to be no longer feasible.

Funds are available in Account: 20092340102.506510, Solid Waste Processing Equip. – SW Mgmt – Professional Services

Attachments: Draft Change Order No. 2

10. Review for Scheduling:

Department Director	Purchasing or Contracts	Human Resources	Other	County Attorney	Budget Services				County Manager/P.W. Director
					Analyst	Risk	Grants	Mgr.	
<i>Jamiller 6-2-05</i>	<i>[Signature]</i>	N.A.		<i>[Signature]</i> 6/2/05	<i>[Signature]</i> 6/2/05	<i>[Signature]</i> 6/2/05	<i>[Signature]</i> 6/2/05	<i>[Signature]</i> 6/2/05	<i>Jamiller 6-2-05</i>

11. Commission Action:

- Approved
- Deferred
- Denied
- Other

Rec. by CoAtty
Date: 6/2/05
Time: 11:00
Forwarded To: [Signature]

RECEIVED BY COUNTY ADMIN: *[Signature]*
6-2-05
10:20
COUNTY ADMIN FORWARDED TO: *[Signature]*
6-2-05
4:30 PM

LEE COUNTY PROFESSIONAL SERVICE/SERVICE PROVIDER AGREEMENT
CHANGE ORDER/SUPPLEMENTAL TASK AUTHORIZATION

- Change Order
- Supplemental Task Authorization

DRAFT NO.: 2

(A Change Order or Supplemental Task Authorization Requires Approval by the Department Director for Expenditures Under \$25,000 or Approval by the County Manager for Expenditures Between \$25,000 and \$50,000 or Approval by the Board of County Commissioners for Expenditures over \$50,000)

CONTRACT/PROJECT NAME: Design, Engineering & Procurement Services for the WTE Expansion Project

CONSULTANT: Burns & Roe Enterprises, Inc.

PROJECT NO.: CIP 200923

SOLICIT NO.: CN 04-02

CONTRACT NO.: 2821

REQUESTED BY: Lee County

DATE OF REQUEST: May 1, 2005

Upon the completion and execution of this Change Order or Supplemental Task Authorization by both parties the Consultant/Provider is authorized to and shall proceed with the following:

- EXHIBIT "CO/STA-A: SCOPE OF PROFESSIONAL SERVICE: DATED: 5/1/05
- EXHIBIT "CO/STA-B: COMPENSATION & METHOD OF PAYMENT: DATED: 5/1/05
- EXHIBIT "CO/STA-C: TIME AND SCHEDULE OF PERFORMANCE: DATED: No Change
- EXHIBIT "CO/STA-D: CONSULTANT'S/PROVIDERS ASSOCIATED
SUB-CONSULTANT(S)/SUB-CONTRACTORS: DATED: No Change
- EXHIBIT "CO/STA-E: PROJECT GUIDELINES AND CRITERIA: DATED: No Change

It is understood and agreed that the acceptance of this modification by the CONSULTANT/PROVIDER constitutes an accord and satisfaction.

RECOMMENDED:

By: [Signature]
Department Director Date 6/1/05

ACCEPTED:

By: _____
Consultant/Provider
(Print Name) _____

COUNTY APPROVAL:

By: _____
Department Director
(Print Name) _____
(Under \$25,000)

By: _____
Contracts Mgmt Date _____

Date Accepted: _____

Date Approved: _____

Corporate Seal

APPROVED:

By: _____
*County Attorney's Office Date

By: _____
County Manager (Between
(\$25,000 and under \$50,000)
Date Approved: _____

*County Attorney signature needed
for over Board level expenditures only.

By: _____
Chairman
Board of County Commissioners
Date Approved: _____

____ SUPPLEMENTAL AGREEMENT No. ____ (continued)
or
X CHANGE ORDER AGREEMENT No. 2 (continued)

EXHIBIT "S/COA-A"
Date: May 1/2005

SCOPE OF SERVICES for Design, Engineering & Procurement Services for the WTE
Expansion Project

SECTION 1.00 SUPPLEMENT(S) TO, OR CHANGE(S) TO
PROFESSIONAL SERVICES

The "Scope of Professional Services" as set forth in Exhibit "A" of the Professional Services Agreement, or Service Provider Agreement, referred to hereinbefore is hereby supplemented, or changed, so that the CONSULTANT, or SERVICE PROVIDER, shall provide and perform the following professional services, tasks, or work as a supplement to, or change to, the scope of services previously agreed to and authorized:

Task CO2-1. Provide detailed engineering and design services described as option 6 in the Water Treatment System Study. Services to include preparation of a design, supply and erect specification, bid evaluation, award, vendor drawing review, all substructure detailed design and other services integrating the water treatment system with the overall plant and existing facility. (See B&R PCN No. 1, attached).

Task CO2-2. Provide detailed engineering, design, and procurement services required to add an additional 138 kV bay to the existing switchyard including all site work, civil, foundations, equipment, grounding, protection and (FPL) interface design. (See B&R PCN No. 2, attached).

Task CO2-3. Provide detailed engineering, design and procurement services to add a new circulating water pump intake/sump for the new cooling tower related to the 3rd combustion unit. Services to include specifications and detailed drawings for the pump sump, screens, pumps (2), and all related electrical and control system requirements. Re-route circulating water piping to new pump intake. (See B&R PCN No. 3, attached).

Task CO2-4. Provide all necessary engineering work, drawings, calculations, sketches, etc., to include sufficient engineering design quantities of concrete foundations/slabs, large-bore piping, ductwork, cable trays, electrical wiring and conduit, control system equipment, structural systems, and all related items such that the contractors preparing proposals for the "balance of plant" construction services will be required to assume only minimal risk related to estimating quantities and construction requirements of these stated work items.

CHANGE ORDER AGREEMENT No. 2

SUPPLEMENTAL TASK AUTHORIZATION No. _____

EXHIBIT "CO/STA-B"

Date: 5/1/05

COMPENSATION AND METHOD OF PAYMENT

For Design, Engineering & Procurement Services for the WTE Expansion Project

SECTION 1.00 CHANGE(S) IN COMPENSATION

The compensation the CONSULTANT, or SERVICE PROVIDER, shall be entitled to receive for providing and performing the supplemented, changed or authorized services, tasks, or work as set forth and enumerated in the Scope of Services set forth in this CHANGE ORDER OR SUPPLEMENTAL TASK AUTHORIZATION AGREEMENT, Exhibit "CO/STA-A", attached hereto shall be as follows:

NOTE: A Lump Sum (L.S.) or Not-to-Exceed (N.T.E.) amount of compensation to be paid the CONSULTANT should be established and set forth below for each task or sub-task described and authorized in Exhibit "S/COA-A". In accordance with Professional Services Agreement Article 5.03(2) "Method of Payment", tasks to be paid on a Work-in-Progress payment basis should be identified (WIPP).

Task Number	Task Title	Amount of Compensation	Indicate Basis of Compensation LS or NTE	If Applicable Indicate (W.I.P.P.)
CO2-1	Add'l. water trtmt. design	\$111,900	NTE	WIPP
CO2-2	Elect. Switchyard design	\$62,400	NTE	WIPP
CO2-3	Add'l cooling tower sump and pumps	\$57,000	NTE	WIPP
CO2-4	Provide engineering quantities for GC-BOP procurement	\$76,500	NTE	WIPP
TOTAL		\$307,800.00	NTE	

(Unless list is continued on next page)

- CHANGE ORDER AGREEMENT No. 2
or
 SUPPLEMENTAL TASK AUTHORIZATION No. _____

SECTION 2.00 SUMMARY OF CHANGE(S) IN COMPENSATION

Pursuant to and in consideration of the change(s) in the Scope of Professional Services set forth in the CHANGE ORDER or AGREEMENT, Exhibit "CO/STA-A", the compensation the COUNTY has previously agreed to pay to the CONSULTANT, or SERVICE PROVIDER, as set forth in Exhibit "B" of the Professional Services Agreement, or Service Provider Agreement, shall be changed to be as follows:

Section/Task Number	Section/Task Name	Compensation In the Basic Agreement	Adjustment(s) by Previous CO or STA Nos. <u>1</u>	Adjustment(s) Due to this CO or STA	Summary of Changed Compensation
6	Insurance Pass-through Cost	\$100,000.00	CO1	\$200,756.00	\$200,756
CO 2	Add'l Water Trtmt. Design, Electrical Switchyard Expansion, New Cooling Tower Sump and Pumps, Provision of Engineering quantities for GC-BOP Procurmt.	0	\$200,756.00	\$307,800.00	\$508,556.00
TOTAL		\$100,000.00	\$200,756	\$508,556.00	\$508,556.00



Project Change Notice

Page 1

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Exhibit II

Project Lee Cty WTE Exp Proj PCN No 1 Rev. A Date 4/29/05

W.O. No. 02611-001 Originator Steve Stuhrke/D. Iavarone

In-Scope Out-of-Scope
Explanation

:Base scope included the preparation of a Water Treatment System Study to recommend a system that would be suitable for the expanded 1800 TPD WTE Facility. Detailed engineering and design based on the study recommendations would then be prepared for client approval.

ORIGINATOR

Description of Change: Ref: BREI Water Treatment Study dtd 3/3/05

Provide detailed engineering and design services described as option 6 in the above referenced study. Services to include preparation of a design, supply and erect specification, bid evaluation, award, vendor drawing review, all substructure detailed design and other services integrating the water treatment system with the overall plant.

Distribution:

- Proj. Mgr.
- Arch.
- Mech.
- C/S
- Elec.
- I&C
- Nuc.
- Process
- Proj. Ctls
- Chief Eng
- Const. Mgr.
- Procurement
- Inf

Affected

- | | |
|---|-----------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
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| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Reason for Change: (Check appropriate box)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Client Request | <input type="checkbox"/> Construction Cost |
| <input type="checkbox"/> Contractor | <input type="checkbox"/> Regulatory Requirements |
| <input type="checkbox"/> Improved Construction Schedule | <input type="checkbox"/> Other (Explain) |

Explanation, if required:

Preliminary Impact Assessment (Attach supporting Info Where needed):
Approximate Values

E&D & P Hours: <u>1298</u>	E&D Cost: <u>\$137,899.00</u>
Procurement Cost: _____	Construction Cost: _____
Operating Costs: _____	Total Cost impact: <u>\$137,899.00</u>

Schedule

Deliverables

See attached discipline tasks and associated man-hours sheet and scope clarifications

Other

Disposition (Work on this change will not proceed until authorized)

Proceed With Change Do not Proceed with Change

Present Out of Scope Change to Client

Distribution:

Same as above and

Dennis Iavarone
Dennis Iavarone

Project Manager

4/29/05
Date



Project Change Notice

Page 2

PM-003
Exhibit II

W.O. No. 02611-001 PCN No. 1 Rev. A Date: 4/29/05
Project Lee Cty WTE Exp Project Preparer: S. Stuhrke/D. Iavarone

(Provide summary description here - Use attachment if necessary):

Impact/Risk of not Proceeding

Signed By: _____
Project Manager/Designee Date

CLIENT ACTION

- You are Hereby Authorized to Proceed with the Change and Furnish a Detailed Estimate of the Costs Involved.
 Do Not Proceed with the Change. However, furnish a Detailed Estimate of the Costs Involved.

Signed By: _____
Client Date

SUMMARY MAN-HOUR and COST ESTIMATE: (Provide details on separate page(s))

	Engineering	Design	Other Services	Total Hrs	Total \$
Man-hours	785	393	120	1298	
Labor Cost	82,808	31,731	11,896		
Other Costs (eg Out of Pockets, CADD etc)	5,143		6,322		\$137,899
Total Estimated Labor Related Cost					

Effects Construction Cost Estimate: (Attach Estimate) Yes No Amount: \$
Explanation:

Effects Procurement Cost Estimate: (Attach Estimate) Yes No Amount: \$
Explanation:

Effects Operating Cost Estimate: (Attach Estimate) Yes No Amount: \$
Explanation:

Cost of Preparing PCN \$ NA

BRE Total Cost Impact ~~\$137,899~~

Effect on Schedule: Yes No Include a marked up schedule showing impact of change.
Explanation:

PCN pricing is valid until June 30, 2005 after which time repricing of the PCN may be required

Concurrence: _____
Construction Manager Project Controls Estimating

Approval: (To Present to Client) Dennis M. Iavarone 4/28/05
Project Manager/Designee Date

Client Action after Review of Detailed Estimate and Description of Impact

- Proceed with the Change Do Not Proceed with the Change except for cost incurred to prepare PCN and costs to date, if previously authorized to proceed.

Signed by: _____
Client Date

Lee County WTE Expansion Project
Attachment to PCN # 1, Water Treatment

The following notes are a clarification for the work products associated with this Water Treatment PCN.

1. The plant interface P&ID will show all flow interfaces with the water treatment equipment. The water treatment equipment will be represented by boxes only, properly identified, with a reference to the applicable vendor P&ID.
2. The water treatment specification will be prepared as a supply and erect ie turnkey specification, including electrical work such as supply of a MCC, cable and conduit etc. BREI will design a supply power feed as appropriate to the system.
3. All equipment is located in the existing building or immediately adjacent to the existing building on a concrete slab designed by BREI. No new or building extension is required or included in our work. *BUT LEAN-TO OR STAND ALONE ROOF STRUCTURE IS INCLUDED.*

Lee County Waste to Energy Expansion Project Project Change Notice (PCN) No. 1 Water Treatment System	Mn-hrs									
	Mech Eng	Mech D	Civil Eng	Civil D	Elect Eng	Elect D	I&C	Procure	Vend Doc	Exped
Task Description										
Prepare Plant Interface P&ID for 30% comment	16	40			1		4			
Incorporate client comments	8	4								
Prepare Plant Interface P&ID for 70% comment	8 12	20 28					2			
Incorporate client comments	4 8	8 20								
Prepare detailed equip P&ID for specification	32						4			
Prepare equipment arrangement dwgs for spec	24	16				1				
Prepare supply and erect spec for comment	50 80		8		40		4			
Incorporate client comments	16				10 20					
Bid issue									16	
Bid evaluation	70 80		2		4		4 40			
Incorporate client comments into bid evaluation	24									
Prepare Conform spec, Term sheet, Admin	18				4		8 20			
Vendor drawing review/expediting	40	8	8		40		20		20	20
Prepare interface piping drawings for 30% comm	8	40								
Incorporate client comments	8	10								
Prepare interface piping drawings for 70% comm	10 8	40 20								
Incorporate client comments, issue final dwgs	8	30 40								
Prepare Pad Demolition drawings for 30% comment				10	40					
Incorporate client comments				2	2					
Prepare Pad Demolition drawings for 70% comment				10 2	10 2					
Incorporate client comments, issue final dwgs				2	2					
Prepare equip exp fnd dwgs 30% comm				40	40					
Incorporate client comments				8	8					
Prepare equip exp fnd dwgs 70% comm				60 48	40 20					
Incorporate client comments, issue final dwgs				10 30	20					
Shop Drawing Review (Rein)				20						
Revise Site Plan				20	10 20					
Prepare electrical one-line diagrams					40					
Prepare electrical raceway drawings 30%					4		10			
Incorporate client comments					4		4			
Prepare electrical raceway drawings 70%					8 4		20 18			
Incorporate client comments, issue final dwgs					4		4			
Grounding Plan Revisions					2		10			
Prepare I&C logics for comment							4			
Incorporate client comments, issue final dwgs							4			
Prepare data link point list							8			
Prepare graphic display							4			
MICRO FILTRATION PAD STRUCTURE			40	30						
	268	220	182	124	187	25	58	80	20	20
	332	160	122	74	159	35	64			1050

9/1/05
 DE
 IRP
 MFS
 SS

Lee County WTE Expansion Project
 Project Change Notice (PCN) # 1
 Water Treatment System/Pricing

Discipline	Rate \$/hr	Man-hours	Cost	
Mech Engr.	103.65	368 <i>332</i>	\$38,143	<i>34411.80</i>
Mech Design	80.2	230 <i>166</i>	\$18,446	<i>13313.20</i>
Civil Engr.	106.15	192 <i>122</i>	\$20,381	<i>12950.30</i>
Civil Design	81.5	124 <i>74</i>	\$10,106	<i>2031.00</i>
Elect. Engr.	111.1	167 <i>139</i>	\$18,554	<i>17664.90</i>
Elect. Design	81.5	39 <i>35</i>	\$3,179	<i>2852.50</i>
I&C	98.8	58 <i>58</i>	\$5,730	<i>5730.40</i>
Procurement	118.45	80 <i>60</i>	\$9,476	<i>7107.00</i>
Vendor Docs	49.4	20 <i>20</i>	\$988	<i>988.00</i>
Expediter	71.6	20 <i>20</i>	\$1,432	<i>1432.00</i>
Totals		1298 <i>1046</i>	\$126,435	<i>102481.10</i>
CAAD @2.25/E&D hr.	2.25	1178 <i>984</i>	\$2,651	<i>2218.50</i>
Reproductions @ 1.05/mnhr	1.05	1298 <i>1046</i>	\$1,363	<i>1098.30</i>
Communications @ 0.87/mnhr	0.87	1298 <i>1046</i>	\$1,129	<i>910.02</i>
Contingency @ 5%			\$6,322	<i>5124</i>
Total Mnhrs/Cost		1298	\$137,899	<i>111831.92</i>

Note: Rates are per contract rate sheet Attachment 1 to Exhibit B.



Project Change Notice
Page 1

PM-003
Exhibit II

Project Lee Cty WTE Exp Proj PCN No 2 Rev. A Date 5/12/05

W.O. No. 02661-001 Originator Ira Rubin

ORIGINATOR

In-Scope Out-of-Scope

Explanation:

Per contract requirements the switchyard expansion for the project was to be executed by the Utility FP&L. At the Interconnection meeting on April 20, 2005 FP&L advised that the expansion would be owned and operated by Lee County.

Description of Change:

Electrical system design revision required to add an additional 138kV bay to the existing switchyard including all grounding, protection and interface design. See Conference Notes No. 11, attached.

Distribution:

- Proj. Mgr.
- Arch.
- Mech.
- C/S
- Elec.
- I&C
- Nuc.
- Process
- Proj. Ctis
- Chief Eng
- Const. Mgr.
- Procurement
- Inf

Affected

- | | |
|---|-----------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
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| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Reason for Change: (Check appropriate box)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Client Request | <input type="checkbox"/> Construction Cost |
| <input type="checkbox"/> Contractor | <input type="checkbox"/> Regulatory Requirements |
| <input type="checkbox"/> Improved Construction Schedule | <input type="checkbox"/> Other (Explain) |

Explanation, if required:

Preliminary Impact Assessment (Attach supporting info Where needed):
Approximate Values

E&D Hours: <u>658</u>	E&D Cost <u>\$70,276</u>
_____	_____
_____	_____
Total E&D Cost	<u>\$70,276</u>

Schedule

Deliverables

See attached task/man-hour estimate

Other

Disposition (Work on this change will not proceed until authorized)

Proceed With Change Do not Proceed with Change

Present Out of Scope Change to Client

Distribution:

Same as above and

D. Iavarone
D. Iavarone

Project Manager

5/13/05
Date



Project Change Notice

Page 2

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Exhibit II

W.O. No. 02661-001 PCN No. 2 Rev. A Date: 5/12/05
 Project Lee Cty WTE Expansion Project Preparer: _____

(Provide summary description here - Use attachment if necessary):

Impact/Risk of not Proceeding

Signed By: _____
Project Manager/Designee Date

CLIENT ACTION

- You are Hereby Authorized to Proceed with the Change and Furnish a Detailed Estimate of the Costs Involved.
 Do Not Proceed with the Change. However, furnish a Detailed Estimate of the Costs Involved.

Signed By: _____
Client Date

SUMMARY MAN-HOUR and COST ESTIMATE: (Provide details on separate page(s))

	Engineering	Design	Other Services	Total Hrs	Total \$
Man-hours	378	240	40	658	
Labor Cost	\$41,263	\$19,560	\$3,579		\$64,402
Other Costs (eg Out of Pockets, CADD etc)			\$5,874		\$5,874
	Total Estimated Labor Related Cost				\$70,276

Effects Construction Cost Estimate: (Attach Estimate) Yes No Amount: \$
 Explanation:

Effects Procurement Cost Estimate: (Attach Estimate) Yes No Amount: \$
 Explanation:

Effects Operating Cost Estimate: (Attach Estimate) Yes No Amount: \$
 Explanation:

Cost of Preparing PCN \$ NA

BRE Total Cost Impact \$70,276

Effect on Schedule: Yes No Include a marked up schedule showing impact of change.
 Explanation:

PCN pricing is valid until June 30, 2005 after which time repricing of the PCN may be required

Concurrence: _____
Construction Manager Project Controls Estimating
D. Iavarone
 Approval: (To Present to Client) _____
Project Manager Date
5/13/05

Client Action after Review of Detailed Estimate and Description of Impact

- Proceed with the Change Do Not Proceed with the Change except for cost incurred to prepare PCN and costs to date, if previously authorized to proceed.

Signed by: _____
Client Date

Lee County Waste to Energy Expansion Project Project Change Notice (PCN) No. 2 Switchyard Expansion	Mn-hrs										
	Mech Eng	Mech D	Civil Eng	Civil D	Elect Eng	Elect D	I&C	Procure	Vend Doc	Exped	
Task Description											
Update E0005 Key One Line Diagram					4	2					
Update E0006 Main One Line Diagram					12	2					
Update E0100 Site Grounding Plan					2	8					
Create E0027 138kV Three Line Diagram					20	10					
Create E0109 138kV Switchyard Grounding Plan					4	8					
Create E1300 SH.1 138kV Bkr Schematic Diagram					16	4					
Create E1300 SH.2 138kV Bkr EWD					4	16					
Create Switchyard Conduit Plan					4	8					
Update ECP-2 Front View/BOM Drawing					2	10					
Update PRP-2 Front View/BOM Drawing					4	16					
Specification SE-201: Swyd Eqpt <i>(includes bid evaluation)</i>					64			20	5	5	
Specification SE-213: Elec Installation					10	12					
Specification SE-216: Protective Relay Panel					16						
Specification SE-215: HV Circuit Breaker <i>(includes bid evaluation)</i>					60			20	5	5	
Cable & Conduit Schedules					2	20					
Site Work			20	24	30	48					
Foundation Design <i>(NOTE 1)</i>			20	100	30	58					
Vendor/Shop Drawing Review			10	24							
FP&L INTERFACE COMMUNICATION					32						
Totals			106	148	60	98	238	116	158	10	10
<i>NOTE 1: Includes multiple bus supports, Breaker tank & two disconnect switches tanks.</i>											
<i>01/1/05</i> <i>TR</i> <i>TR</i> <i>MP</i>											

Lee County WTE Expansion Project
 Project Change Notice (PCN) # 2
 Switchyard Expansion/Pricing

Discipline	Rate \$/hr	Man-hours	Cost	
Mech Engr.	103.65		\$0	
Mech Design	80.2		\$0	
Civil Engr.	106.15	104 148 40	\$15,710	11251.90
Civil Design	81.5	40 90 24	\$7,335	4890.00
Elect. Engr.	111.1	252 230 146	\$25,553	28441.60
Elect. Design	81.5	116 150 138	\$12,225	9454.00
I&C	98.8		\$0	
Procurement	118.45	40 20	\$2,369	4738.00
Vendor Docs	49.4	10 10	\$494	494.00
Expediter	71.6	10 10	\$716	716.00
Totals		598 658	\$64,402	59985.50
CAAD @ 2.25/E&D hr.	2.25	558 648	\$1,391	1255.50
Reproductions @ 1.05/mnhr	1.05	598 658	\$691	627.90
Communications @ 0.87/mnhr	0.87	598 658	\$572	520.26
Contingency @ 5%			\$3,220	2999.
Total Mnhrs/Cost		658	\$70,276	Re Calc. 62389.16

Note: Rates are per contract rate sheet Attachment 1 to Exhibit B.

OK



BURNS AND ROE ENTERPRISES, INC.
800 Kinderkamack Road
Oradell, New Jersey 07649

CONFERENCE NOTES NO. 11

Lee County W-T-E Expansion Project
Monthly Progress Meeting
Date: April 20, 2005
Location: Florida Power and Light, Juno Beach, FL
Purpose: Review of Interconnection Details
Attendees:

Lee County	Covanta Energy	BREI	Florida Power and Light
Lindsey Sampson	Peter Wasiowich	Ira Rubin	Tom Sanders
	Amrit Sagar		Daniel Mayers
	Jody Howard		Ed Clark
			Kenneth Veronce

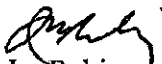
Discussion:

1. Florida Power and Light (FPL) requires the Interconnection Feasibility Study Agreement to be executed by Lee County, with payment, at which time FPL will proceed with the initial feasibility study for this expansion project. Lindsey Sampson discussed some comments from the Lee County attorney concerning this agreement, and it is expected that the agreement will be executed before the end of April, 2005. FPL expects the duration of the initial feasibility study to be 45 days. Following that, FPL will perform a system impact study (duration of approximately 90 days), followed by a facility study (duration of approximately 120 days). FPL performs these studies in series. Cost estimates for the interconnection will be prepared during the last study. Each study requires a signed agreement with Lee County before the study is performed.
2. The expansion of the Lee County facility will require a second bay to be added to the plant substation, identified as the FPL 138 kV Lazy Acres Substation. This new bay will be immediately south of the existing bay, connected to the existing 138 kV transmission line (approximately 0.5 miles in length) that originates in the FPL Buckingham Substation. The new bay will contain a new 138 kV circuit breaker and associated disconnect switches and metering equipment. There will be no permanent fence between the existing bay and the new bay. A temporary fence will be installed during construction of the new bay for personnel safety.

CONFERENCE NOTES NO. 11

3. The equipment in the new bay will be owned and maintained by Lee County, except the FPL metering equipment may be owned by FPL (FPL to review and advise). The Change of Ownership location for the new 138 kV bay will be at the overhead line drop to the new bay. The ownership and maintenance of the existing bay equipment will remain with FPL. Operational control of the circuit breakers in the new and existing bays will remain with FPL. The substation gate will have double locking to provide access into the substation to both FPL and facility personnel.
4. FPL will design and install a new transmission pole at the west end of the new bay, and FPL will design and install the overhead conductors from this pole to the west end of the rigid bus of the new bay, at the first station post insulator. Design details will be coordinated at a later time.
5. Protective relaying for the new bay will be similar to the existing bay, except that the 138 kV bus differential relay (87B) for the new bay will belong to the facility. The present one line diagram was reviewed and discussed, with the conclusion that Burns and Roe will need to revise the configuration of the protection and control for the new 138 kV new interconnection.
6. FPL metering of the new interconnection was discussed. The Point of Interconnection for metering is at Buckingham Substation, but the actual metering is done at Lazy Acres, with line losses compensated in the metering. Lee County asked if the metering can be done at Buckingham Substation, which would allow a single combined net metering point for revenue metering. FPL indicated that they will still need individual unit metering for their system dispatcher. FPL will review the metering and respond.
7. The new bay will have lightning arresters near the line drop connection. Shield wires for lightning protection over the new bay can be provided, but FPL needs to know the tension and elevation for their pole design. Burns and Roe will review the switchyard shielding and provide recommendations.
8. FPL will provide the requested technical data by May 13, 2005 (short circuit current values, X/R ratio, voltage and frequency ranges) to enable Burns and Roe to proceed with the facility power system design.
9. FPL will provide the detailed design for the existing substation ground grid, including the calculation, fault clearing time and soil resistivity data. Burns and Roe will design the expanded ground grid that will tie into the existing.

Prepared by:


Ira Rubin

04-28-05



Project Change Notice
Page 1

DRAFT

PM-003
Exhibit II

Project Lee Cty WTE Exp Proj PCN No 3 Rev. A Date 5-19-2005

W.O. No. 02661-001 Originator Steve Stuhrke

In-Scope Out-of-Scope
Explanation: Project BOD states that the third 50% circ water pump for the existing unit will be used for the Unit # 3 expansion (i.e. three 33 1/3% pumps), and that the A/E is to confirm the sump is adequate. Existing sump inadequate for three (3) -pump operations. Ref: Three Pump Circ Water Test Report transmitted on 4/22/05.

ORIGINATOR

Description of Change: Design a new circulating water pump intake for the Unit #3 expansion. Design, specify, and support procurement of two (2) new 50% circ water pumps including all required electrical and controls support. Reroute circulating water piping to new pump intake. Design separate and independent cooling tower and circ water system.

Distribution:	Affected
<input checked="" type="checkbox"/> Proj. Mgr.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Arch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Mech.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> C/S	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Elec.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> I&C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Nuc.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Process	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Proj. Ctls.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Chief Eng	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Const. Mgr.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Procurement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> pf 6.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No

Reason for Change: (Check appropriate box)

In Scope	Out of Scope
1 <input type="checkbox"/> Client Request	1 <input checked="" type="checkbox"/> Not Included in Contract.
2 <input type="checkbox"/> Contractor Request (FCO No.)	2 <input checked="" type="checkbox"/> Client Request
3 <input type="checkbox"/> Value Engineering	3 <input type="checkbox"/> Regulatory Requirement
4 <input type="checkbox"/> Other (Explain)	4 <input type="checkbox"/> Other (Explain)

Explanation, if required:

Preliminary Impact Assessment (Attach supporting info Where needed):

Approximate Values	Detailed Estimate
E&D MHR: _____	660 <i>TBD</i>
E&D Cost _____	\$69,587
_____	_____
_____	_____

Schedule: No impact at this date

Deliverables: See attached task/man-hour sheet for new/revised deliverables

Other: _____

Disposition (Work on this change will not proceed until authorized.) (Check only one box.)

In Scope - Proceed With Change Do not Proceed with Change

Out of Scope - Present Change to Client

Distribution: _____

Same as above and _____

Comments/Instructions:

Dennis Iavarone
 Dennis Iavarone
 Project Manager
 5/25/05
 Date



Project Change Notice

Page 2

PM-003
Exhibit II

W.O. No. 2661-001 PCN No. 3 Rev. A Date: 5-19-05
 Project Lee County WTE Exp Project Preparer: S. Stuhrke

(Provide summary description here – Use attachment if necessary):

Impact/Risk of not Proceeding Proceeding with use of existing intake could cause operational or performance problems for the plant as well as shorten the life of the pumps. Relocating and use of "spare" pump in new intake instead of two 50% pumps will limit ability of unit to respond to a pump trip and a hard shutdown.

Signed By: _____ Date _____
Project Manager/Designee

CLIENT ACTION

You are Hereby Authorized to Proceed with the Change and Furnish a Detailed Estimate of the Costs Involved.
 Do Not Proceed with the Change. However, furnish a Detailed Estimate of the Costs Involved.

Signed By: _____ Date _____
Client

SUMMARY MAN-HOUR and COST ESTIMATE: (Provide details on separate page(s))

	Engineering	Design	Other Services	Total Hrs	Total \$
Man-hours	364	248	48	660	
Labor Cost	38,008	20,061	5,686		\$63,755
Other Costs (eg Out of Pockets, CADD etc)			5,832		\$5,832
	Total Estimated Labor Related Cost				\$69,587

Effects Construction Cost Estimate: (Attach Estimate) Yes No Amount: \$NA
 Explanation:

Effects Procurement Cost Estimate: (Attach Estimate) Yes No Amount: \$NA
 Explanation

Effects Operating Cost Estimate: (Attach Estimate) Yes No Amount: \$NA
 Explanation: With pumps and intake completely separate from the existing system this may allow adjustments in system design to reduce the required head for the new pumps. If the efficiency of the new pumps matches that of the existing pumps this could mean an operating cost savings, but it is not clear if this will be the case at this time.

Cost of Preparing PCN NA

Total Cost Impact ~~\$69,587~~

Effect on Schedule: Yes No Include a marked up schedule showing impact of change.
 Explanation: No impact on schedule is determinate on timely procurement

PCN pricing is valid until (not applicable), after which time repricing of the PCN may be required.

Concurrence: _____
Construction Manager Project Controls Estimating

Approval: (To Present to Client) *Dennis M. Iavarone* 5/25/05
Project Manager/Designee Date

Client Action after Review of Detailed Estimate and Description of Impact

Proceed with the Change Do Not Proceed with the Change except for cost incurred to prepare PCN and costs to date, if previously authorized to proceed.

Signed by: _____ Date _____
Client

Lee County Waste to Energy Expansion Project Project Change Notice (PCN) No. 3 Circ Water Pump System	Mn-hrs										
	Mech Eng	Mech D	Civil Eng	Civil D	Elect Eng	Elect D	I&C	Procure	Vend Doc	Exped	Overall Total
Task Description											
Revise System Calc for 50% pumps at new intake	30	26									
Revise Circulating Water piping	4		32	16							
Revise Circulating Water Pump Specification	14	20							8		
Revise P&ID's	10		20	10				4			
Bid evaluation/Term Sheet	20	40							48	20	
Expand CT chemical injection system	10	20									
Develop blowdown and make-up system	8	40									
Revise E0010: 4160V One Line Diagram					2	4					
Add Elementary/EWD's					10	10					
Impact to Elec Calcs					2						
Impact to Cable & Conduit Schedules							4				
New Duct Bank Drawings					2	8	16				
New Conduit Plan Drawings					2	8	4				
Revise Grounding Plan Drawings					1	4					
Revise Circ Water Pump Logic									5		
CT level and blowdown logics	2								10		
Spec out additional instrument and Control Valves									28	12	
Revise Instrument/IO lists									12		
Revise Site Work			6	12	12	4					
Design new intake structure	8	16	4	80	50	30					
Trash screen design				8	8						
Trash screen removal monorail design			16	24	16	12					
Shop drawing review (Rebar/Steel)				30							
Totals	140	116	154	86	19	46	51	48	0	0	660

Lee County WTE Expansion Project
 Project Change Notice (PCN) # 3
 Circ Water Pump System/Pricing
 Date: 25 May 2005

Discipline	Rate \$/hr	Man-hours	Cost
Mech Engr.	103.65	140	\$14,511
Mech Design	80.2	116	\$9,303
Civil Engr.	106.15	154	\$16,347
Civil Design	81.5	86	\$7,009
Elect. Engr.	111.1	19	\$2,111
Elect. Design	81.5	46	\$3,749
I&C	98.8	51	\$5,039
Procurement	118.45	48	\$5,686
Vendor Docs	49.4		\$0
Expediter	71.6		\$0
Totals		660	\$63,755
CAAD @2.25/E&D hr.	2.25	612	\$1,377
Reproductions @ 1.05/mnhr	1.05	660	\$693
Communications @ 0.87/mnhr	0.87	660	\$574
Contingency @ 5%			\$3,188
Total Mnhrs/Cost		660	\$69,587

Note: Rates are per contract rate sheet Attachment 1 to Exhibit B.