

WALK ON #2

DSW

Lee County Board Of County Commissioners
Agenda Item Summary

Blue Sheet No. 20051728

1. ACTION REQUESTED/PURPOSE: Approve award of formal quotation (RFP B&R 2661-SM155) and issuance of a purchase order to Delta Ducan, Inc., the low price proposer, meeting all specification requirements for carbon storage and delivery equipment in an amount of \$407,180.00.

2. WHAT ACTION ACCOMPLISHES: Provides the necessary carbon storage and delivery equipment for the Waste To Energy Expansion Project.

3. MANAGEMENT RECOMMENDATION: Staff recommends approval of the requested motion.

4. Departmental Category: 8

WO #2

5. Meeting Date: 12-6-2005

6. Agenda:
 Consent
 Administrative
 Appeals
 Public
 Walk-On

7. Requirement/Purpose: (specify)
 Statute
 Ordinance
 Admin. Code AC 4-1
 Other

8. Request Initiated:
Commissioner
Department Public Works
Division Solid Waste
By: Lindsey J. Sampson

Lindsey J. Sampson

9. Background:

Sealed quotes were received by the County's design engineer, Burns & Roe, on behalf of the Solid Waste Division on July 28, 5005. On that date three responses were received. After review, recommendation was made to award to the low-priced proposer meeting all specification requirements.

Funds are available in account string: 200923 40102.506540

Attachments: Burns & Roe revised bid evaluation dated 11/23/05, Revision 2.
Tabulation sheet
Covanta recommendation letter dated 11/28/05.

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>Stander</i> 11.20.05	NA per JS.	NA				<i>11/30/05</i>	<i>11/30/05</i>	<i>11/30/05</i>	<i>Stander</i> 11.30.05

11. Commission Action:

Approved
 Deferred
 Denied
 Other

JTA

RECEIVED BY COUNTY ADMIN: *PN*
11-30-05
1:43
COUNTY ADMIN FORWARDED TO:

Rec. by CoAtty
Date: 11/30/05
Time: 1:00pm
Forwarded To: *11/30/05*

DeSalvo, Richard A.

From: Sampson, Lindsey J.
Sent: Monday, December 05, 2005 4:20 PM
To: DeSalvo, Richard A.; Walker, Elizabeth K.
Cc: Lavender, James H.; Coovert, Scott S.
Subject: Walk On for 12/6/05 BOCC (BS # 2005 1728)

Libby, Richard,

I am requesting that item No. C.8.a (BS # 20051728) of the 12/13/05 BOCC meeting be brought forward as a Walk-On Item for the 12/6/05 meeting. It has come to my attention that the construction schedule requires ordering this equipment one week earlier than was anticipated. The vendor has already committed to (has begun) producing vendor submittal drawings in order to meet our delivery schedule.

Lindsey J. Sampson
Lee County Solid Waste Division
sampsolj@leegov.com
Ph 239-338-3302
Fax 239-461-5871



November 23, 2005

Deleted: April 13, 2005

LEE COUNTY
WTE EXPANSION PROJECT
FORT MYERS, FLORIDA
RFP 2661-SM-155
Activated Carbon Feed System
BID EVALUATION – Revision 2

Note: This is revision #2 to the Activated Carbon Feed System Bid Evaluation. It is a complete replacement of the original Evaluation dated September 30, 2005, and Rev 1 dated 11/3/05.

On June 28 2005, Burns and Roe Enterprises, acting on behalf of Lee County, issued Request for Proposal No. (RFP) 2661-SE-155 "Activated Carbon Feed System" for the supply of equipment. RFP was issued to the following pre-approved bidders: Norit-Americas; DeltaDucon; and Smoot Co. Bids were received and opened from:

Norit-Americas proposal #NAI-12094-072205

DeltaDucon proposal #05-07-061S

Smoot Co. proposal #M10561

Bids were received, opened and recorded on the Proposal Opening Form dated 7/28/05 included as Attachment 1. Covanta was provided copies of the three (3) bids.

Technical evaluation conducted with the three (3) bidders (see attached Technical Evaluation). Norit-Americas could not comply with or meet the requirements of the technical specifications. Discussions were conducted with DeltaDucon and Smoot. DeltaDucon was responsive to all requests and questions presented. Smoot finally responded to the technical questions, however, did not commit to delivery during March 2006.

Due to the schedule of Boiler steel erection, the carbon silo is required to be delivered on-site March 15, 2006. In order to erect the silo by 3/15/06, equipment/components will ship separately. Additionally, there are site space restrictions restricting the overall height and diameter of the silo. It is crucial that this procurement meet both these criteria.

Expediting document submittals, subsequent approval, and delivery of the silo is required.

RECOMMENDATION:

The recommended award of the Purchase Order to DeltaDucon in the amount of \$407,180. This is FOB Jobsite prepaid and allowed, and excludes Bonds and Sales Tax.

Delta Ducon.

Base Price, as bid	\$392,485.
Technical Adjustments	38,735.
Project Discount	<u>-24,040.</u>
Recommended Award Price:	\$407,180.

BID EVALUATION 2661-SM155 "Carbon Feed System" (cont'd...)

COMMERCIAL EVALUATION:

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Bids were opened and recorded on July 28, 2005. Discussion with Norit-Americas, DeltaDucon, and Smoot, Co were necessary to conform bids technical specifications. Technical adjustments were required and in some cases price adjustments were required. The intent of specification is to shop assemble the equipment/component to maximum extent and field installed by others.

Norit Americas, Inc. Norit stated requested changes are different from their standard system and changing would cause problems and Norit has no history of furnishing the required system, thus could not guarantee its operation (Norit email 10/12/05). No further discussion conducted with Norit.

Smoot Co. base bid is \$408,744. includes shop assembly; however, Smoot could not identify to the extent shop assembly would be complete. After numerous requests, Smoot advised their engineering would be required to determine amount of shop assembly, plus meeting the silo delivery of March 15, 2006. This is unacceptable.

Smoot indicated that the silo would ship in two (2) pieces and engineering is required to determine extent of shop assembly. Smoot decline to ship the silo as one single unit. Smoot includes a total of eight (8) days of having a technical representative on site during installation, start-up, and training. Additional time required is billed at \$800/per plus expenses. Drawings for approval can be submitted in 3 weeks and 10weeks shipment from receiving approval drawings. Payment terms currently are 30% on order; 30% upon issuance of drawings for approval, and 40% as shipped, all net 30 days. Smoot took exception to specific articles of the Services/Goods Purchase Conditions.

DeltaDucon base bid is \$392,485. Technical adjustments to Delta's bid increase base price by \$38,735 (see technical evaluation for details) and with the Project discount of \$24,040 DeltaDucon's final price is \$407,180. This includes shipping the silo in one single unit with no components assembled within the silo. If awarded by December 6, 2005, drawings could be submitted for approval within three (3) weeks.

-Payment terms are 25% with PO; 25% submittal of arrangement drawings; 25% upon approval of arrangement drawings; and 25% upon shipment. More favorable terms will be discussed with DeltaDucon

-Accepts the Services/Goods Purchase Conditions as included in RFP (see 8/25 email).

-Spare parts for start-up/commissioning is included.

-Ten (10) days of Field Technical Supervision included. Additional day rate is \$850/day.

-Delivery critical based upon award date and drawing approval turnaround.

Delta has provided a field installation cost of \$59,539.29. However, this was prior to shipping the silo complete with all components. Delta stated they would shop assemble all components within the silo but would add \$10,000 for special shipping bracing and protection of equipment. This total of \$69,539 to be used as a base line for whoever (GC) installs the equipment in the field.

TECHNICAL BID EVALUATION
REQUEST FOR PROPOSAL No. 2661-SM-155
Activated Carbon Feed System
(Revised)

SUMMARY

Due to height restrictions of the carbon silo and an accelerated schedule due to location of the silo in relation to boiler steel, the bidders were asked a series of questions regarding these issues.

Due to boiler steel erection requirements, it is required that the carbon silo be installed before some of the steel supports are placed. These supports also place a height restriction on the carbon silo. The silo cannot be taller than 69 feet, including bin vent filter jib boom and other equipment located on the top of the silo.

Due to the accelerated schedule, Delta/Ducon has indicated that it is not possible for the equipment inside of the silo to be installed prior to delivery. Therefore they are proposing to ship the silo as one piece, minus equipment, and ship the equipment loose later for installation by others. This, we believe, to be the same for Smoot as well, therefore both bidders have not had installation included in their pricing evaluation.

Although smoot has been expedited they have not been responsive, and have not provided revised pricing to date. When this pricing is received, the evaluation will be revised as necessary, Smoot's price is only likely to increase.

New Revisions of Tables 1, 3, and 9 were added to this specification.

Pricing Evaluation

Please refer to Revised Page A3-2 of Attachment 3, as this is the Updated pricing evaluation.

Delta/Ducon's base price is \$392,485.00. Rotary Valve compliance adder is \$15,600.00. Their adder for motor vendor compliance is \$6,975.00. Their adder for compliance with Roots RAM model blower is \$1,255.00 per blower for a total of \$2,510.00. Their adder for the required diverter valve and associated piping is \$3,800.00 per train for a total of \$11,400.00 for three trains. In order to maintain the height restriction of 69 feet, the equipment located on the top of the silo must be modified. The adder for this modification is \$2,250.00. Their proposal, including adders, totals \$431,220.00.

Smoot's base price for their proposed system is \$408,744.00. Removal of the main control panel deducts \$11,843.00 from their base price. A price adder for compliance with the silo size is \$11,185.00. Their proposal, including adders and deducts, totals \$408,086.00. This price is incomplete due to lack of responses from Smoot and will only increase.

Recommendation

With the revisions made by Delta/Ducon, their proposal is technically acceptable. The Carbon Silo is within the 69 feet requirement. Pending satisfactory responses and pricing from Smoot, we are recommending Delta/Ducon for the Carbon Injection System.

TECHNICAL BID EVALUATION
REQUEST FOR PROPOSAL No. 2661-SM-155
Activated Carbon Feed System
(Revised)

SUMMARY

Based on Covanta's review of the bid evaluation, additional questions and comments were generated for all three of the bidders. These questions and comments were submitted to the Vendors resulting in this revision to the evaluation.

The questions and comments included issues with the fluidizing air pads, which are not considered approved equal by Covanta as well as the "Rotolok" feeders quoted by Norit and the Accurate gravimetric feeder and rotary valve quoted by Delta Ducon which were also deemed not acceptable.

Norit's response was that they were not going to change their proposal. The system that they had proposed was their standard system, and the required changes would lead to a system that they have little or no experience with. Therefore, since their Standard System is not compliant with the specification they have been deemed non responsive, and have not been considered further.

Smoot, who was unresponsive in the initial evaluation, will now be considered.

Both Delta/Ducon and Smoot have submitted adders and option pricing as required.

New revisions of Tables 1, 3, and 9 were added to this evaluation.

PRICING EVALUATION

Please refer to Revised Page A3-2 of Attachment 3, as this is the Updated pricing evaluation. Delta Ducon's base price is \$392,485.00. Rotary Valve compliance adder is \$15,600.00. Their adder for motor vendor compliance is \$6,975.00. Their shop installation of equipment is estimated at \$10,000.00 over their field install price of \$59,540.00. Their proposal, including adders, totals \$484,600.00.

Smoot's base price for their proposed system is \$408,744.00. Removal of the main control panel deducts \$11,843.00 from their base price. A price adder for compliance with the silo size is \$11,185.00. Shipping a fully assembled base and the top separately is \$13,000.00. Their proposal, including adders and deducts, totals \$421,086.00.

Norit's Shipped loose base price is \$273,780.00 (minus bond). A price adder of \$101,250.00 for gravimetric feeders and a cost of \$3,465.00 for one-year spare parts, and \$400.00 for compliance to a 5-degree roof pitch bring their shipped loose total to \$380,425.00.

RECOMMENDATION

Both revised proposals submitted by Delta/Ducon and Smoot are technically acceptable. The system proposed by Smoot is the low bidder, at \$63,514.00 less than Delta/Ducon, and is recommended. Their system matches the system described by the specification. Norit's proposal is considered non-compliant.

TECHNICAL BID EVALUATION
REQUEST FOR PROPOSAL No. 2661-SM-155
Activated Carbon Feed System

SUMMARY

Request for proposal was sent to three bidders: Delta/Ducon, Norit, and Smoot Co. All three companies submitted proposals, which were received and evaluated.

A preliminary evaluation was performed that indicated that both Delta/Ducon and Norit had submitted a proposal that was substantially complete. Smoot had submitted a bill of materials and had not submitted any technical data sheets as requested. Attempts to obtain these data sheets have been unsuccessful, and Smoot Co. has been considered non-responsive.

Norit submitted two proposals: one with infield installation, and an "Option 'C'" which is to ship the fully assembled unit to the jobsite. Delta/Ducon had submitted a proposal that included no in-field installation or a fully assembled unit. Their proposal was to ship everything loose and to have Others erect and assemble. In order to make a direct comparison, Delta/Ducon was asked for option pricing for in-field installation and Norit was asked for price to ship loose components to the jobsite.

Delta/Ducon has provided a proposal for a system that matches the design and design intent of the specification; where there are two common blowers and a bin vent filter fan. Norit has submitted a proposal that, while matching the intent, does not match the design specified in the specification. Their proposal includes an individual blower for each carbon injection train.

The full evaluation of the revised proposals, Delta/Ducon is technically acceptable. BREI feels that the proposed system by Norit, even though different than the design specified, meets the design intent, and therefore it is technically acceptable. In addition, both Delta/Ducon and Norit proposal's need fine-tuning in certain areas before final award. These changes should not affect the base price to any great degree.

TECHNICAL DISCUSSION

Please reference Attachment 1 for a complete Technical Comparison and reference Attachment 2 for a complete list of Technical Clarifications and Exceptions. Attachments 4-8 are technical comparisons of various motors

required for the system. Please note that Attachments 4-8 are largely incomplete, and need to be completed before award.

Delta/Ducon

Delta/Ducon's initial submittal contained all datasheets nearly complete. Their proposal included a complete system shipped loose to the jobsite, and to be installed by others. Their proposal utilizes two blower assemblies; one blower with a backup, common to all three trains. Delta/Ducon offered gravimetric feeders with no cost adder. Delta/Ducon also offered the specified blower on the silo bin filter.

When Delta/Ducon was questioned on why they had not provided a complete system shipped fully assembled, they stated that due to the size of the silo and the amount of equipment to be installed under the silo skirt, it would not be feasible to pre-install and pre-wire all the equipment and then brace everything to protect it during shipping. They believed that the additional bracing and time required to install all the bracing, the ability to be sure that all equipment would survive transit to the jobsite, and removal of said bracing would be more expensive and time consuming.

Delta/Ducon offered an option pricing deduct for changes to the carbon silo. These changes included the changing of the ¼ inch plate requirement, a 10-degree roof pitch, and all platforms, ladders, and stairs to be changed to aluminum construction. The 10-degree roof pitch and aluminum stairs, ladders and platforms were not deemed acceptable, therefore the price deduct was not considered.

Delta/Ducon has provided a pricing adder for compliance with SE-211 Motor Specification. The bin activator is the only motor not replaced under this adder. The motor is made specifically for this application by Reliance for Kinergy. BREI has deemed that this motor is acceptable.

Delta/Ducon was asked to provide option pricing for in-field installation of the equipment. This pricing option is shown in Attachment 3.

Norit

Norit's proposal included no formal list of technical exceptions or clarifications; they provided a bill of materials only. A formal list of technical exceptions and clarifications needs to be obtained before award and evaluated.

Norit's proposed system utilizes three separate and independent blowers per carbon train. This differs from the specification, which calls for two common blowers. This system has been determined to be acceptable by BREI.

They have provided option pricing for gravimetric feeders, which is required by the specification. Their proposal also includes a roof pitch of 10 degrees on the carbon silo. As per Covanta, this slope is not acceptable. Norit provided a price adder for a 5-degree roof pitch.

Norit has provided a price adder for a bin vent filter blower motor as specified in the specification.

Smoot Co.

Smoot Co. initially submitted an incomplete proposal, in that all of the data sheets were not submitted. The specification calls out for a silo that can hold, at a minimum, approximately 5000 cubic feet. Smoot Co.'s silo falls short of this capacity by 1,441 cubic feet, storing 3559 cubic feet of carbon. Smoot has proposed a disclaimer to the bin vent filter.

"We have quoted a fan on the bin vent filter as requested. We do not recommend this as a good design. The airflows on a PD truck unloading are variable. The fan will be a restriction when the truck reaches its blowdown cycle. Any issues with filtration or silo pressurization based on the design based on the proposal request are the responsibility of the buyer."

Smoot Co. has since not supplied any additional information, and they are being considered non-responsive.

PERFORMANCE EVALUATION

Systems proposed by Norit and Delta/Ducon both meet the design intent of the specification. Both systems, after option pricing, meet the gravimetric feeder, AC motor vendor, and carbon silo requirements.

PRICING EVALUATION

Please reference Attachment 3, Bid Prices, for a detailed breakdown of the costing structure.

Delta/Ducon's shipped loose price to the jobsite is \$392,485.00. The price adder for motor spec conformity is \$6,975.00. This brings the total to \$399,460.00. This is for material supply only. It does not include the erection or installation of the carbon silo or equipment.

Norit's Shipped loose base price is \$273,780.00 (minus bond). A price adder of \$101,250.00 for gravimetric feeders and a cost of \$3,465.00 for one-year spare parts, and \$400.00 for compliance to a 5-degree roof pitch bring their shipped loose total to \$380,425.00. This is 5.4% less than Delta/Ducon

Delta/Ducon's Field Install price includes \$392,485.00 base plus an additional \$60,000.00 for in-field installation and \$6,975 for motor spec conformity. This brings the total cost to \$459,460.00. The \$60,000.00 field installation amount is an approximation for the installation of all equipment.

Norit's field install price includes \$326,739.00 (Minus bond) base plus an additional \$101,250.00 for the required gravimetric feeders, 3,465.00 for one-year spare parts, and \$400.00 price adder to meet the specified 5 degree roof pitch. This brings the total to \$433,384.00. This is 6.4% less than Delta/Ducon.

Smoot Co. submitted proposal is \$421,744.00 FOB to the jobsite.

RECOMMENDATION

Systems proposed by both Norit and Delta Ducon are technically acceptable. It is the recommendation of BREI to award the bid to Norit for their shipped loose and field-installed proposal. This proposal is in the amount of \$433,384.00, approximately 6.4% less than Delta/Ducon. Field installation is required to meet the intent of the specification; to provide a fully assembled unit. If in-field installation by Norit is not desired, Norit should be awarded the bid for their shipped loose proposal with a price of \$380,425.00, approximately 5.1% less than Delta/Ducon.

These recommendations are pending discussion of the items contained herein, acceptance, by the client, of their proposed system, submittal of complete data sheets for all motors and system with adders, and unless formal commercial evaluation dictates otherwise.

Attachment 1
SM-155 Carbon Injection
Technical Evaluation

Rev 2

		<i>Bidders</i>	
	DELTA/DUCON	Smoot Co.	Norit
Carbon Pneumatic Feed System Data			
A) Activated Carbon			
Density used for silo capacity	25 lb/ft3	15	25 lb/ft3
Density used for equipment sizing	15 lb/ft3	25	25 lb/ft3
Density used for silo structural design	35 lb/ft3	35	35 lb/ft3
Max Carbon rate (per train)	60 lb/hr	60	100 lb/hr
Carbon feed rate design (per train)	60 lb/hr	50	60 lb/hr
Carbon feed rate normal (per train)	35 lb/hr	50-6 lb/hr	35 lb/hr
Carbon feed rate minimum (per train)	10 lb/hr	6	5 lb/hr
B) Carbon Storage Silo			
Capacity	5,100 ft3	5029 ft3	5000 ft3
Diameter	14 ft	12	14 ft
Overall Height	58'-6"	65'	52'
Storage Side Height	31'-4"	43'	32'
Hoppers Vertical Height	9'-8"		4.2'
Hoppers Side Angle	60°	60°	60°
Material of Construction	A.36	A.36	A.36 Carbon Steel
Wall Thickness	1/4"	1/4"	
C) Bin Activator			
Quantity	3	3	N/A
Manufacturer	Kinergy or Equal	Carman	N/A
Model No.	KBA-3-HD	4GBD	N/A
Inlet/Outlet Size	3 ft. / 8in.	4' / 8"	N/A
Motor Horsepower	1/4 HP	1/4 HP	N/A
D) Manual Knife-Gates or Bin-Activator discharge			
Manufacturer	Delta Ducon or Equal	Salina Vortex	DeZurick
Model	20-3636M	F Series	KGL,8,WI,SIC,MMN-HD12
Size	8"	8 inch	8"
E) Carbon Silo Bin Bent Filter			
Manufacturer	Dustex or Equal	Smoot Co.	Torit
Cloth Area	272 ft2	245	900 ft2

Bidders

	DELTA/DUCON	Smoot Co.	Norit
Bag Material	16 oz Polyester Felt	Felted Polyester	Cartridge
Cleaning Method	Pulse Jet	Pulse Jet	Reverse Pulse
Bag size dia. and length	Ø6" x 58" lg	6.25" x 75"	
Number of Bags	36	26	4
Fan Manufacturer	Cincinnati	NYB	N/A
Fan Type	Centrifugal Blower	Centrifugal Blower	N/A
Fan Rated Volume	650	650	N/A
Fan Rated Static Pressure	6" w.c.	8	N/A
Fan Motor HP	2 HP	3	N/A
Silo Fill Pipe			
Line Size	4"	4 inches	4"
Description / Schedule	Sch. 80, seamless	Sch 80, seamless	Sch 80, seamless
Material	ASTM A53, Grade B	ASTM A53, Grade B	ASTM A53, Grade B
G- Rotary Airlock Feeders Manufacturer	Deta Ducon	Smoot Co.	Rotolok
Size (Capacity / RPM)	8" / 0.17 / 15	8" / 021 ft3 / 10	8" / 62 CFM / 5
Drive / MFG. Type	Chain Drive	US Motor / Worm Gear	Rotolok / Round
Motor (RPM/HP)	1800 / ¼ Hp	100 RPM / 1.5 Hp	1800 / ½ Hp
Materials of Construction -Rotor /Body	Mild Steel Cast Iron	Carbon Steel on A2 Flips Cast Iron with Chrome Plating	Mild Steel Cast Iron
H Surge Bins			(Feeder Hoppers)
Capacity	7.5 ft3	47	6 ft3
Diameter of Mouth x Depth	2'-10"	By K-Tron	20 x 24 inches
Height	2'	By K-Tron	26 inches
Material of Construction	Stainless Steel	304SS / CG 80 Flange	S.S.
Plate thickness		By K-Tron	1/8"
Silo Level Probes			
Manufacturer	Endress & Hauser, or Equal	Endress and Mauser	Indicator
Model	FTM 260-N-4-B		LPIAIDA30
Type	Vibration (Tuning Fork)	Tuning Fork	Tuning Fork
Gravimetric Carbon Feeders Manufacturer	K-Tron	K-Tron	Acriston
Model	KML-D5-KT20	KML-D5-KT20	105Z
Type	Loss in Weight	Loss in Weight	Volumetric
Capacity (2max RPM)	1200 lbs/hr	50 lbs/hr	100 lbs/hr
Turndown Range	5:1	5:1 or Better	20
Drive Type		VED	SCR
Motor		¾ & ½ Hp	1
Volumetric Feed Rate per Motor RPM			.0021 cu.ft./rpm/hr

		Bidders	
	DELTA/DUCON	Smoot Co.	Norit
K- Local Carbon System Control Panel	N/A		
NEMA Rating	N/A	4X	N/A
PLG Manufacturer / Model	N/A	Allen Bradley 5/04	N/A
Panel size (Width x Height x Depth)	N/A	TBD	N/A
Power Requirements	N/A	120VAC	N/A
L- Local Truck Fill Panel			
NEMA Rating	4X	4X	4X
Panel Size (Width x Height x Depth)	20" x 20" x 6"	TBD	12" x 16" x 6"
M- Variable Speed Controller			
Separate panel or inside Local Carbon Panel	Separate	Inside	Local
NEMA Rating	4 Purged	4X	4X
Panel size (if applicable)	34" x 24" x 12"	N/A	48" x 36" x 12"
N- Loss in Weight Controller			
Separate panel or inside Local Carbon Panel	Separate	K-Tron	N/A
NEMA Rating	4 Purged	K-Tron	N/A
Panel size (if applicable)	34" x 24" x 12"	K-Tron	N/A
O- Local Silo Level Indicator / Transmitter (ultrasonic)			(reflex Radar)
Manufacturer			
Model	Milltronics or Equal	Milltronics	Krohne
Separate panel or inside Local Carbon Panel	Multi Ranger 100	7ML1033-1A/A0021A	BM100
NEMA Rating	Separate	Separate Panel	Local
P- Positive Displacement Blower Assemblies	4x	Class II Div 1 Group F (NEMA 9)	4x
Manufacturer			(Regenerative)
Model	Roots RAM	Assembly - Smoot / Blower - Roots	Ametek
Design Capacity	45 URAI		Rotron EN633BA72L
Discharge Pressure	300 CFM	180 cfm	70 cfm
Moist	6 psi	7 psi	7 psi
Intefilter (mf. Model)	10 Hp	15 Hp	7 1/2 Hp
Pressure Relief Valve (mf. Model)	Universal or Equal	Soulberg CT-234P-300C	Solberg
Low Pressure Switch (mf. Model)	Kunkle	Dwyer	Dwyer / 3
Electro	Ashcroft	SOR	
Manufacturer			
Model	Fox or Equal	Fox	Fox
Max Min Carbon Flow	320-WRE-R-HT	Solids	2" 320-WRE-HT
Rate, SCFM and Pressure	100 / 0 lb/hr	50 / 6	150 / 0 lb/hr
Conveying line Pressure Switch (mf. Model)	85 SCFM @ 6psig	180 / 7	70 psi @ 7 scfm - Operating
O- Pneumatic Conveying Pipe Inside Silo Skirt	Ashcroft	SOR	Dwyer

Bidders	
DELTA/DUCON	Norit
2"	1 1/4 - 2 inch
Steel	S.S. + CS
80	40
Utility Requirements	Smooth Co.
Instrument Air (peak/dormal)	
Power Consumption	
Maximum Power Demand	
40 / scfm 80-100 psig	10/20 scfm 80-100 psig
12 kW	13 kW hrs
26 kW	50 kW hrs
	13 / SCFM 100 psig (int. usage)

Attachment 3
Bid Prices
SM-155 Carbon Injection System

Bidders						
Description	NORIT	NORIT "Option C"	NORIT (Ship Loose)	Delta/Ducon	Delta / Ducon (In Field Installation)	Smoot
PAC Injection System	\$331,261.00	\$331,261.00	\$278,302.00	\$392,485.00	\$392,485.00	
Bong	-4,522.00	-4,522.00	-4,522.00			
FOB	Included	Included	Included	Included	Included	
SUB-TOTAL	\$326,739.00	\$326,739.00	\$273,780.00	\$392,485.00	\$392,485.00	
Option "A" Gravimetric Feeders in Lib of Volumetric	\$101,250.00	\$101,250.00	\$101,250.00	Included	Included	
Option "B" Spare Parts (Listed Separately)	\$3,465.00	\$3,465.00	\$3,465.00	Included	Included	
Option "C" System Supplied Pre-Assembled w/ no on-site installation	\$12,635.00	\$12,635.00	N/A	N/A	N/A	
Decoupler for Silo Option* In-Field Installation	N/A	N/A	N/A	-\$18,640.00	-\$18,640.00	
5 Degree Roof Pitch (to conform with specification)	Included	N/A	N/A	N/A	\$60,000.00 est.	
Bin Vent Blower Motor	\$400.00	\$400.00	\$400.00	Included	Included	
Compliance with Motor Specification	\$1,530.00	\$1,530.00	\$1,530.00	Included	Included	
TOTAL	\$433,384.00 (w/Option "A" & "B")	\$446,019.00 (w/Option "A", "B" & "C")	\$380,425.00 (Shipped Loose)	\$399,460.00 (Shipped Loose)	\$459,460.00 *** (Shipped Loose Field Installed)	

* Silo option includes: (Not included in Total Price)

1. Remove requirement of ¼ inch plate thickness
2. Change silo roof angle to 10°
3. Change Access Platforms, Ladders, and stairs to aluminum construction
4. Keep Compliance with the 2004 Florida Building Code

** Smoot has been considered non-responsive due to lack of response to E-mailed questions and attempts to obtain data sheets.

*** Ship Loose field Installed is equivalent to the Norit Proposal with Options A & B.

Sampson, Lindsey J.

From: Peter Young [pyoung@CovantaEnergy.com]
Sent: Monday, November 28, 2005 6:40 PM
To: Sampson, Lindsey J.; Glenn Fontana
Cc: Dennis Anacker; Nick Gorsky; dcastro@hdrinc.com; Don D'Amico; Steve Stuhrke; Jim Kelly
Subject: MCAFEE E-MAIL SCAN ALERT!~FW: LEE COUNTY BID EVAL SM-155 CARBON SYSTEM

Attachments: Lee County SM-155 Carbon Injection Bid Evaluation Rev 2_1.pdf; BID ABSTRACTrev2.xls



Lee County SM-155
Carbon Injec...



BID
TRACTrev2.xls (112)

Attachment file : CommercialBidEvaluationRev.2.doc
Scanner Detected: Suspicious Extensions (Virus)
Action taken : Moved (Clean failed because the virus could be new)

Gentlemen,

Based on B&R's attached revised Carbon System Bid Evaluation, dated November 23, 2005, Revision 2, (and updated on 11/28/05) Covanta concurs with B&R's selection and recommendation to purchase the subject package from Delta Ducan. The following comments are for your consideration and guidance:

1. Commercial Terms & Conditions - Vendor has agreed to the RFP T&C's without changes.
2. Price: Delta Ducon has confirmed that Reliance is the base motor vendor for the rotary and gravimetric feeders, therefore the price adder of \$6,975 included in B&R's revised bid evaluation is not necessary. After deleting this \$6,975, Covanta concurs with B&R's recommended adjustments and Recommended Award Price totaling \$400,205.

To expedite delivery, the scope and this price excludes shop assembly of the equipment within the silo enclosure. An allowance of \$69,539 should be allocated to the GC for field installation of the carbon system components. Although the base scope and price includes 10 days of field technical supervision, additional field supervision may be necessary to supervise the GC's work in completing the assembly.

3. Project Estimate: \$292,377
4. Bond: Excluded. This is an equipment delivery only order, therefore County does not require a bond and is not included in the recommended award.
5. Payment Terms: 25% with PO; 25% upon submittal of arrangement drawings; 25% upon approval of arrangement drawings; and 25% upon shipment. B&R to follow-up with seeking more favorable payment terms and confirm a net 30 days.
6. Schedule: A delivery date of March 15, 2006 had been established with the vendor based on a November 29, 2005 PO award. Since an award by November 29th is not feasible, a PO award will need to be made no later than the week of December 5, 2005 in order to meet a critical delivery date of March 22, 2006. This delivery date is critical in order to avoid constructability issues associated with boiler steel erection.

B&R should proceed immediately with the following:

- 1) Seek more favorable payment terms;
- 2) Issue the County a purchase order term sheet that reflects the final agreements and understandings to be incorporated into the purchase order; and
- 3) issue the conformed specification, with all data sheet data filled-in, for inclusion in the purchase order.
- 4) Arrange a kick-off meeting with the vendor ASAP but no later than week of December 5th.
- 5) In a November 23, 2005 teleconference between Covanta, B&R, and Delta Ducon confirmed the following:

- a. Delta Ducon will provide in their scope of supply, all mechanical equipment, electrical panels, lighting fixtures, terminal and junction boxes (but not cable, wiring or commodity items) for field installation by others. At the kick-off meeting B&R is to identify all drawings Delta Ducon will have to produce (especially conduit and cable drawings) to allow field installation by others. Otherwise B&R will have to produce such drawings for the GC.
- b. A diverter system will be provided with automatic actuated valves and additional pressure reducing nozzles, as necessary to automatically divert excess carrier air back to the silo if any train or trains are shut down.

B&R to confirm the above items a & b by including same in the conformed specification.

B&R's original and current schedule for issuing this PO was August 3, 2005 and October 4, 2005, respectively. Covanta recommends that the County have this award approved by the BOCC by the December 6, 2005 BOCC Meeting to facilitate avoiding constructability impact costs and/or delays.

Peter

-----Original Message-----

From: Don D'Amico [mailto:ddamico@roe.com]
Sent: Monday, November 28, 2005 1:08 PM
To: Young, Peter
Cc: Serrette, Pat
Subject: Lee County Bid Eval SM-155 Carbon System

Pete,
Attached is up to date evaluation with Smoot's latest furnished info. Please disregard what I sent to you 11/23/05.

Patty,
Please take attached 3 files and post on WEB under Bid Evaluation SM-155.

Don