Lee County Board Of County Commissioners
Agenda Item Summary
Blue Sheet No. 20050906

1,ACTION REQUESTED/PURPOSE: Approve award of formal quotation (RFP B&R 2661-SM115) and issuance of a purchase order to Ecodyne, Inc., the low price proposer, meeting all specification requirements for a deaerator, in an amount of $96,362.00.

2. WHAT ACTION ACCOMPLISHES: Provides the necessary deaerator for the waste to energy expansion project.

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

4. Departmental Category: 8 C8H		5. Meeting Date: 06-28-2005
6. Agenda:	**7. Requirement/Purpose:** *(specify)*	**8. Request Initiated:**
X Consent	Statute	Commissioner
Administrative	Ordinance	Department: Public Works
Appeals	X Admin. Code 4-1	Division: Solid Waste
Public	Other	By: Lindsey J. Sampson
Walk-On		

9. Background: Sealed quotes were received by the County's design engineer, Burns & Roe, on behalf of the Solid Waste Division on April 22, 2005. On that date three (3) responses were received. After review, recommendation was made to award to the low-priced proposer meeting all specification requirements. Backup documentation refers to an adder of $250.00 for an optional performance bond. The Solid Waste Division does not want to make use of this option.

Funds are available in account string: 200923 40102.506540

Attachments: Burns & Roe bid evaluation dated 4/13/05 and 4/28/05
Tabulation sheet
Covanta Comments on the B&R bid evaluation dated 4/26/05 and 5/18/05

10. Review for Scheduling:

Department Director	Purchasing or Contracts	Human Resources	Other	County Attorney	Budget Services: Analyst	Risk	Grants	Mgr.	County Manager/P.W. Director
6-15-05	NA	NA						6/16/05	6-15-05

11. Commission Action:

_____Approved
_____Deferred
_____Denied
_____Other

RECEIVED BY COUNTY ADMIN: 6-16-05 9:15
COUNTY ADMIN FORWARDED TO:

Rec. by CoAtty
Date: 6/15/05
Time: 3:00
Forwarded To:
Admin 6/16/05

LEE COUNTY RESOURCE FACILITY
WASTE TO ENERGY EXPANSION PROJECT

April 13, 2005

LEE COUNTY
WTE EXPANSION PROJECT
FORT MYERS, FLORIDA
RFP 2661-SM115
DEAERATOR
BID EVALUATION

RECOMMENDATION

On February 23, 2005, Burns and Roe Enterprises, acting on behalf of Lee County issued Request for Proposal No. 2661-SM115 for the supply and erection of the Deaerator to the following pre-approved bidders: Ecodyne Limited, Kansas City Deaerator, Sterling Deaerator, and Crane Environmental. After receipt of the RFP Crane responded as a No-Bid, reason given would not be competitive.

On March 24, 2005 the following listed bids were received, opened and recorded on the Proposal Opening Form herewith included, and found in Attachment 5.

1. Ecodyne Limited Proposal # 2661 dated 3/24/05
2. Kansas City Deaerator Proposal # CC-35895-C dated 3/21/05
3. Sterling Deaerator # 205-8394 dated 3/18/05

Bids received were given to Covanta.

The recommended award of the contract is to Ecodyne Limited, based on the technical evaluation, evaluated price analysis and comments herein. Award price includes FOB Delivered Jobsite, Freight Prepaid and Allowed, and does not include the cost for Performance and Payment Bonds, and Sales or Use Tax.

Base Price:	$	96,500.00
Deducts: (Adjustments per Attachment #4)	($	250.00)
(Cost of Bonds)	($	250.00)
Add: (Start-Up Spares)	$	362.00
Recommended Award Price:	**$**	**96,362.00**

BID EVALUATION 2661-SM115 "Deaerator" (cont'd...)

COMMERCIAL EVALUATION:

Upon initial evaluation it appeared the three (3) remaining Bidders, namely Ecodyne Limited, Kansas City Deaerator and Sterling Deaerartor met the basic intent of the specifications and were competitive. Based on the preliminary evaluation a set of bid conditioning comments/ questions was prepared and sent to each of the (3) Bidders, on March 30, 2005, to further clarify technical/commercial issues taken by each of the Bidders.

The questions and Bidders responses are covered in the technical portion of the Bid Abstract "Attachment 2". Based on the Bidders responses, to the questions, engineering determined that Ecodyne and Kansas City were technically acceptable, and that Sterling was not in compliance with specification and therefore technically unacceptable.The cost impact as a result of the bid conditioning are as tabulated and shown in the Abstract, and are as briefly described below:

- Ecodyne's Base Bid was initially found to be slightly lower in price, between 2.5 and 3%, than both Kansas City and Sterling. Adjustments to their bid as a result of technical bid conditioning items indicated that they were still lowest commercially and technically acceptable bidder. Outstanding commercial issues and exceptions with Ecodyne have been resolved with the exception to the following:

  Purchase Conditions Clause 8 Insurance
  Delete, Line 5, sentence beginning with "If applicable" and ending with "completion of services". It is Ecodyne's position that this sentence does not apply to this contract.

- Sterling Deaerator, at this point was found to be technically unacceptable. Pricing adjustments have been tabulated and included in the evaluation including their modified offering of a $5000. reduction on the premise that their actual freight cost was lower than originally estimated. This was recorded and tabulated on the Abstract for comparison for comparison purposes only and does not alter our commercial recommendation for award to lowest commercially and technically acceptable Bidder Ecodyne.

- Kansas City Deaerator, was the 3rd lowest bidder. After bid condition they were found to be technically acceptable. Commercially there remained several outstanding items pertaining to the terms and conditions. These issues or exceptions were not pursued further at this time.

All dollar adjustments have been made as applicable and reflected in the Commercial Abstract.

TECHNICAL DISCUSSION

GENERAL

After receiving the proposals, new preliminary heat balances from Mitsubishi were received by BREI. The flows in and out of the deaerator had changed slightly from the values specified in the Technical Specification SM-115 Rev. 2. The new values were forwarded to the three responding bidders. They all indicated that the new values would not impact the guaranteed performance of the proposed equipment, and no changes to the proposal were required as a result of this.
Also after receiving the proposals, two additional changes to the specification were made. These changes are:

a) It was decided that the strongback assemblies will be furnished by Others.
b) The design temperature for components exposed to superheated steam was changed from 540 °F to 750 °F.

The bidders were requested to provide price impact for the changes.

The equipment offered by the three bidders would meet the performance requirements and have similar vent flow rates. Also, the overall dimensions and materials of the proposed equipment were comparable.

The bidders proposed ground smooth internal welds per NACE RP0178, Designation D. Two of the bidders offered as an option Designation C (more stringent). BREI considers Designation D acceptable.

Kansas City Deaerator (KC) Proposal:

The proposed equipment is the heaviest (29.6 KLb vs. 27.7 KLb and 25.5 KLb) of the group.

The initial offer included riveted trays. Subsequently, as an option, KC offered one-piece trays.

For the 750 °F design temperature of the heater section, KC provided two options, one maximizing the use of reinforcing pads and another using an entire thicker (1/2") shell. Considering that the higher design temperature is being adopted to cover infrequent upset steam conditions, BREI considers that the design with the reinforcing pads (least expensive option) would be acceptable.

The equipment proposed by KC with the optional one-piece tray was found technically acceptable.

Sterling Deaerator Proposal:

The equipment proposed by Sterling included riveted trays. Subsequently, as an option, Sterling offered welded trays. The specification requires one-piece construction without riveting or welding. Although the existing unit at the site is a Sterling deaerator with

riveted trays, and apparently the Plant has been satisfied with its performance, the proposed unit has been deemed not acceptable for not compliance with the specification in this regard.

From Attachment 4 – Pricing Summary, the total equipment cost from Sterling, with riveted trays (base bid) was the highest, and with the optional welded trays $70.00 lower than the highest bidder (KC), which used one-piece trays.

Ecodyne Proposal:

The equipment proposed by Ecodyne included some optional items that are required to meet specification requirements and intent. These options are:

a) Full vacuum design
b) Stainless steel internal baffles
c) Shop installed trays

The proposed deaerator is the lightest of all units proposed (25.5 KLb vs. 29.6 KLb and 27.7 KLb). Also, the trays' thickness is the thinnest at 20 gauge vs. 16 gauge proposed by the other bidders.

Four initial clarifications/exceptions made by Ecodyne were found not acceptable. However, with the subsequent additional data and offered options provided by Ecodyne, those clarifications/exceptions were satisfactorily resolved/eliminated. For more details refer to Attachment 2.

The equipment proposed by Ecodyne, with the optional items listed above, was found technically acceptable.

PERFORMANCE EVALUATION

The proposals submitted indicate that the proposed equipment from all three bidders would meet the required performance guarantees. This is:

a) Water temperature leaving the heating section
b) Maximum content of dissolved oxygen
c) Maximum content of CO

The vent rate specified by Ecodyne of 68 lb/hr was higher (approx. 15%) than the other bidders. BREI considers the vent values specified as "indicative" since manufacturers use own, and frequently different, approach to calculate it (e.g. percentage of feedwater flow, steam flow, condensate plus make-up flow, etc.). Additionally, for example, Sterling specified a vent flow of 61 lb/hr but indicated that it could be as high as 196 lb/hr in order to meet performance guarantees. Because of this and since the vent flow would not be measured, BREI considered that an adjustment evaluated cost (penalty) would not be imposed to Ecodyne.

PRICING EVALUATION

Refer to Attachment 4 – Pricing Summary . Ecodyne is the lowest bidder once the "required optional items" are added to all bidders. KC was the bidder with the original lowest base price. However, once its required optional items are added, KC's price exceeds that of Ecodyne by approximately 3%. The original price from Sterling with riveted trays was the highest and $70.00 less than the highest when welded trays are used.

Although not shown as part of the equipment cost in Attachment 4, the cost of start-up spare parts (i.e. manway gaskets) should be taken into consideration when purchasing the equipment.

RECOMMENDATION

The equipment proposed by KC and Ecodyne, with the required optional items, was found technically acceptable. Both deaerators offer equivalent performance, and have similar size and materials. Ecodyne is the recommended Bidder as the one with the lowest total equipment cost.

The equipment from Ecodyne should be purchased with the following quoted options:

Deletion of strongback assemblies
Full vacuum design
Stainless steel internal baffles
Shop installed trays

Also, it is recommended that the start-up spares by purchased with the equipment.

COVANTA LEE COUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

Date: April 8, 2005
By: J.E.F.

TECHNICAL BID EVALUATION
REQUEST FOR PROPOSAL No. 2661-SM-115 DEAERATOR
ATTACHMENT 1 – APPLICABLE DOCUMENTS

Lee County RFP No. 2661-SM115

Burns and Roe Documents:

E-mail form J. Diliberti to KCD, Sterling and Ecodyne, dated 4/4/05; change in design temperature.

E-mail form D. D'Amico to KCD, dated 3/25/05; request for missing pages and drawing
E-mail form D. D'Amico to KCD, dated 3/26/05; initial questions/comments
E-mail form J. Diliberti to KCD, dated 3/29/05; follow-up questions/comments
E-mail form J. Ferrero to KCD, dated 4/4/05; clarification on primer required

E-mail form D. D'Amico to Sterling, dated 3/25/05; initial questions/comments
E-mail form J. Diliberti to Sterling, dated 3/31/05; follow-up questions/comments
E-mail form J. Ferrero to Sterling, dated 4/4/05;option for deletion of strongback assemblies

E-mail form J. Diliberti to Ecodyne, dated 3/30/05; initial questions/comments
E-mail form J. Diliberti to Ecodyne, dated 3/31/05; follow-up questions/comments
E-mail form J. Ferrero to Ecodyne, dated 4/4/05;option for deletion of strongback assemblies
E-mail form J. Ferrero to Ecodyne, dated 4/4/05;cost for shop installing the trays

Kansas City Deaerator Documents:

Proposal dated March 21, 2005

E-mail to BREI, dated 3/25/05; submittal of missing pages and drawing
E-mail to BREI, dated 3/29/05; response to initial questions/comments
E-mail to BREI, dated 3/30/05; response to follow-up questions/comments
E-mail to BREI, dated 4/5/05; response to change in design temperature.

Sterling Deaerator Documents:

Proposal dated March 18, 2005

E-mail to BREI, dated 3/30/05; response to initial questions/comments

TECHNICAL BID EVALUATION
REQUEST FOR PROPOSAL No. 2661-SM-115 DEAERATOR

ATTACHMENT 1 – APPLICABLE DOCUMENTS, CONT'D.

E-mail to BREI, dated 3/31/05; submittal of missing first page from Proposal/Data Sheets
E-mail to BREI, dated 4/1/05; response to follow-up questions/comments
E-mail to BREI, dated 4/4/05; response to deletion of strongback assemblies
E-mail to BREI, dated 4/5/05; response to change in design temperature

Ecodyne Documents:

Proposal dated March 28, 2005

E-mail to BREI, dated 3/31/05; response to initial questions/comments
E-mail to BREI, dated 4/4/05; response to follow-up questions/comments
E-mail to BREI, dated 4/4/05; response to deletion of strongback assemblies
E-mail to BREI, dated 4/4/05; response to change in design temperature.
E-mail to BREI, dated 4/4/05; option for shop installing trays
E-mail to BREI, dated 4/7/05; clarification on tray thickness

COVANTA LEE COUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

Date: April 28, 2005
By: J.E.F.

TECHNICAL BID EVALUATION, Rev. 1
REQUEST FOR PROPOSAL No. 2661-SM-115
DEAERATOR

SUMMARY

Request for Proposal was sent to four bidders: Crane Environmental, Ecodyne Limited, Kansas City Deaerator, and Sterling Deaerator. Crane Environmental did not bid. Proposals from the other three bidders were received and evaluated.

A preliminary evaluation was performed on all proposals received. The preliminary evaluation indicated that all proposals were substantially complete. Based on the preliminary evaluation, a list of questions/comments was sent to each Bidder.

The full evaluation indicated that the equipment offered by Kansas City Deaerator and by Ecodyne was technically acceptable, and the one from Sterling was not acceptable.

TECHNICAL DISCUSSION

GENERAL

After receiving the proposals, new preliminary heat balances from Mitsubishi were received by BREI. The flows in and out of the deaerator had changed slightly from the values specified in the Technical Specification SM-115 Rev. 2. The new values were forwarded to the three responding bidders. They all indicated that the new values would not impact the guaranteed performance of the proposed equipment, and no changes to the proposal were required as a result of this.
Also after receiving the proposals, four additional changes to the specification requirements were made. These changes are:

a) It was decided that the strongback assemblies will be furnished by Others.
b) The design temperature for components exposed to superheated steam was changed from 540 °F to 750 °F.
c) The nozzle material for the make-up water shall be SS.
d) The connections for chemical feed and sampling were removed from the deaerator.

All bidders were requested to provide price impact for changes a) and b). Changes c) and d) occurred during the Rev. 1 of this evaluation and only Kansas City Deaerator was requested to provide price impact.

The equipment offered by the three bidders would meet the performance requirements and have similar vent flow rates. Also, the overall dimensions and materials of the proposed equipment were comparable.

The bidders proposed ground smooth internal welds per NACE RP0178, Designation D. Two of the bidders offered as an option Designation C (more stringent). BREI considers Designation D acceptable.

Kansas City Deaerator (KC) Proposal:

The proposed equipment is the heaviest (29.6 KLb vs. 27.7 KLb and 25.5 KLb) of the group.

The initial offer included riveted trays. Subsequently, as an option, KC offered one-piece trays.

For the 750 °F design temperature of the heater section, KC provided two options, one maximizing the use of reinforcing pads and another using an entire thicker (1/2") shell. Considering that the higher design temperature is being adopted to cover infrequent upset steam conditions, BREI considers that the design with the reinforcing pads (least expensive option) would be acceptable.

The equipment proposed by KC with the optional one-piece tray was found technically acceptable.

Sterling Deaerator Proposal:

The equipment proposed by Sterling included riveted trays. Subsequently, as an option, Sterling offered welded trays. The specification requires one-piece construction without riveting or welding. Although the existing unit at the site is a Sterling deaerator with riveted trays, and apparently the Plant has been satisfied with its performance, the proposed unit has been deemed not acceptable for non-compliance with the specification in this regard.

From Attachment 4 – Pricing Summary, the total equipment cost from Sterling, with riveted trays (base bid) was the highest, and with the optional welded trays $70.00 lower than the highest bidder (KC), which used one-piece trays.

Ecodyne Proposal:

The equipment proposed by Ecodyne included some optional items that are required to meet specification requirements and intent. These options are:

a) Full vacuum design
b) Stainless steel internal baffles
c) Shop installed trays

The proposed deaerator is the lightest of all units proposed (25.5 KLb vs. 29.6 KLb and 27.7 KLb). Also, the trays' thickness is the thinnest at 20 gauge vs. 16 gauge proposed by the other bidders.

Four initial clarifications/exceptions made by Ecodyne were found not acceptable. However, with the subsequent additional data and offered options provided by Ecodyne,

those clarifications/exceptions were satisfactorily resolved/eliminated. For more details refer to Attachment 2.

The trays offered by Ecodyne are 20 gauge thick, and they are thinner than the ones offered by the other bidders, which are 16 gauge. This initially became a concern within BREI. However, after relating and discussing this concern with Ecodyne, BREI concluded that the 20 gauge trays are acceptable. For more details refer to Ecodyne's e-mail dated 4/7/05 addressing this issue.

Ecodyne proposed deaerator included an inlet water box design; whereas KC and Sterling offered units with a distribution header above the trays. Covanta informed Burns and Roe (refer to Covanta's e-mail of 4/26/05) of technical problems associated with the older water box design proposed by Ecodyne, such as water box weld and vent pipe weld cracking and potential for water box vibrations.

The equipment proposed by Ecodyne, with the optional items listed above, was found technically acceptable. However, based on Covanta's input, the equipment is deemed as an older design and technically inferior than the one proposed by the other bidders.

PERFORMANCE EVALUATION

The proposals submitted indicate that the proposed equipment from all three bidders would meet the required performance guarantees. This is:

a) Water temperature leaving the heating section
b) Maximum content of dissolved oxygen
c) Maximum content of carbon monoxide

The vent rate specified by Ecodyne of 68 lb/hr was higher (approx. 15%) than the other bidders. BREI considers the vent values specified as "indicative" since manufacturers use own, and frequently different, approach to calculate it (e.g. percentage of feedwater flow, steam flow, condensate plus make-up flow, etc.). Additionally, for example, Sterling specified a vent flow of 61 lb/hr but indicated that it could be as high as 196 lb/hr in order to meet performance guarantees. Because of this and since the vent flow would not be measured, BREI considered that an adjustment evaluated cost (penalty) should not be imposed to Ecodyne.

PRICING EVALUATION

Refer to Attachment 4 – Pricing Summary. Ecodyne is the lowest bidder once the "required optional items" are added to all bidders. KC was the bidder with the original lowest base price. However, once its required optional items are added, KC's price exceeds that of Ecodyne by approximately 3%. The original price from Sterling with riveted trays was the highest and $70.00 less than the highest (KC) when welded trays are used.

Although not shown as part of the equipment cost in Attachment 4, the cost of start-up spare parts (i.e. manway gaskets) should be taken into consideration when purchasing the equipment.

RECOMMENDATION

The equipment proposed by KC and Ecodyne, with the required optional items, was found technically acceptable. Both deaerators offer equivalent performance, and have similar size and materials. However, based on Covanta's input, Ecodyne's equipment design is deemed technically inferior to the one proposed by KC. Therefore, KC is the recommended Bidder with an equipment cost approximately $3,000 higher than one offered by Ecodyne.

The equipment from KC should be purchased with the following quoted options:

One-piece construction trays
Reinforcing pads required for design temperature of 750 °F
Stainless steel make-up nozzle

Also, it is recommended that the start-up spares by purchased with the equipment.

COVANTA LEE COUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

Date: April 28, 2005
By: J.E.F.

TECHNICAL BID EVALUATION, Rev. 1
REQUEST FOR PROPOSAL No. 2661-SM-115 DEAERATOR
ATTACHMENT 1 – APPLICABLE DOCUMENTS

Lee County RFP No. 2661-SM115

Burns and Roe Documents:

E-mail form J. Diliberti to KCD, Sterling and Ecodyne, dated 4/4/05; change in design temperature.

E-mail form D. D'Amico to KCD, dated 3/25/05; request for missing pages and drawing
E-mail form D. D'Amico to KCD, dated 3/26/05; initial questions/comments
E-mail form J. Diliberti to KCD, dated 3/29/05; follow-up questions/comments
E-mail form J. Ferrero to KCD, dated 4/4/05; clarification on primer required
E-mail form J. Ferrero to KCD, dated 4/27/05; request optional price for nozzle materials and nozzle deletion

E-mail form D. D'Amico to Sterling, dated 3/25/05; initial questions/comments
E-mail form J. Diliberti to Sterling, dated 3/31/05; follow-up questions/comments
E-mail form J. Ferrero to Sterling, dated 4/4/05;option for deletion of strongback assemblies

E-mail form J. Diliberti to Ecodyne, dated 3/30/05; initial questions/comments
E-mail form J. Diliberti to Ecodyne, dated 3/31/05; follow-up questions/comments
E-mail form J. Ferrero to Ecodyne, dated 4/4/05;option for deletion of strongback assemblies
E-mail form J. Ferrero to Ecodyne, dated 4/4/05;cost for shop installing the trays

Covanta Documents:

E-mail from Peter Young to D. Iavarone, dated 4/26/05; selection and recommendation of equipment manufacturer.

Kansas City Deaerator Documents:

Proposal dated March 21, 2005

E-mail to BREI, dated 3/25/05; submittal of missing pages and drawing
E-mail to BREI, dated 3/29/05; response to initial questions/comments
E-mail to BREI, dated 3/30/05; response to follow-up questions/comments
E-mail to BREI, dated 4/5/05; response to change in design temperature
E-mail to BREI, dated 4/27/05; response to optional price for nozzle materials and nozzle deletion

Sterling Deaerator Documents:

Proposal dated March 18, 2005

E-mail to BREI, dated 3/30/05; response to initial questions/comments
E-mail to BREI, dated 3/31/05; submittal of missing first page from Proposal/Data Sheets
E-mail to BREI, dated 4/1/05; response to follow-up questions/comments
E-mail to BREI, dated 4/4/05; response to deletion of strongback assemblies
E-mail to BREI, dated 4/5/05; response to change in design temperature

Ecodyne Documents:

Proposal dated March 28, 2005

E-mail to BREI, dated 3/31/05; response to initial questions/comments
E-mail to BREI, dated 4/4/05; response to follow-up questions/comments
E-mail to BREI, dated 4/4/05; response to deletion of strongback assemblies
E-mail to BREI, dated 4/4/05; response to change in design temperature.
E-mail to BREI, dated 4/4/05; option for shop installing trays
E-mail to BREI, dated 4/7/05; clarification on tray thickness

COVANTA LEE COUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

Date: April 28, 2005
By: J.E.F.

TECHNICAL BID EVALUATION, Rev. 1
ATTACHMENT 2 - SUMMARY OF TECHNICAL EXCEPTIONS AND CLARIFICATIONS
RFP No. 2661-SM-115 - DEAERATOR

BIDDER: KANSAS CITY DEAERATOR

Technichal Exception/Clarification	BREI Response/Resolution
The unit will be fabricated per ASME Code and inspected and approved by an authorized inspector. If the Custome wishes to approve the appearance of the unit, this must be done prior to shipment.	Comment noted and accepted. If Covanta/Owner wishes to inspect unit prior to shipment, Manufacturer should be informed.
The MDMT is assumed to be -20° F.	Comment noted and accepted. Also, Bidder was requested to confirm compliance with second paragraph of Section 2.5 "Materials" of the specification, which the Bidders confirmed.
KCD trays are formed and riveted to end plates as recommended by HEI.	Exception not acceptable. Per second paragraph of Section 2.4.1 "Heating Section" of the specification, the trays shall be one-piece construction. (Note:KCD subsequently proposed one-piece trays as an option).
Connections are provided for instrumentation. Since level control instrumentation is not in KCD scope of supply, it is assumed that the strongbacks will be privided in the field by others.	Exception is acceptable. The specification will be changed to indicate that strongback assemblies will be by Others,
All internal welds shall be ground smooth per NACE RP0178, Designation "D".	Clarification noted and accepted. BREI considers Designation D adequate for the application.
One (1) 3" connection is provided for sentinel relief as recommended by HEI.	Clarification noted and accepted.

TECHNICAL BID EVALUATION, Rev.1
ATTACHMENT 2 - SUMMARY OF TECHNICAL EXCEPTIONS AND CLARIFICATIONS
RFP No. 2661-SM-115 - DEAERATOR

BIDDER: STERLING DEAERATOR

Technichal Exception/Clarification	BREI Response/Resolution
Proposed equipment uses riveted trays.	Exception not acceptable. Per second paragraph of Section 2.4.1 "Heating Section" of the specification, the trays shall be one-piece construction. (Note: Subsequently Sterling proposed welded trays which did not meet specification requirement either).

COVANTA LEE COUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

TECHNICAL BID EVALUATION, Rev. 1
ATTACHMENT 2 - SUMMARY OF TECHNICAL EXCEPTIONS AND CLARIFICATIONS
RFP No. 2661-SM-115 - DEAERATOR

BIDDER: ECODYNE

Technichal Exception/Clarification	BREI Response/Resolution
2.4.1 - Trays are shipped separately, standard recommneded practice.	Clarification not accepted. Ecodyne claimed that this would allow the site Contractor to flush the system if necessary prior to installation of trays without the risk of debris caught in the trays. It is BREI opinion that the unit would not be flushed. Subsequently, Ecodyne proposed as an option to shop install the trays. This option should be excersiced if Ecodyne's equipment is selected.
2.6.1 - All internal welds are "blended" smooth, not specifically ground.	Clarification not accepted. Subsequently, Ecodyne clarified that the internal welds would be ground smooth per NACE RP0178 Designation D. BREI considers this acceptable. (Note: the specification should be revised to eliminate ambiguities on weld finish).
3.1 - Water for hydrotesting would be standard City water, typically with less than 30 ppm chlorides.	The specification requires the water to contain less than 5 ppm of chlorides. BREI considers this requirement too stringent for this application. The exception is found acceptable. Also, Ecodyne confirmed that equipment would be completely drained and thoroughly dried prior to shipment and a dessicant installed inside the vessel.
Attachment 1, Section 1.2 - The water box is not specifically designed for "full vacuum".	Exception not acceptable. Subsequently, Ecodyne proposed, as an option, full vacuum design. This option shall be excersiced if Ecodyne's equipment is selected.
Attachment 1, Section 1.3 - All connection sizes will be confirmed during detailed engineering and provided to ensure that all performance guarantees are met.	Clarification accepted.

COVANTA LEE COUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

Date: April 8, 2005
By: J.E.F.

TECHNICAL BID EVALUATION
ATTACHMENT 4 – PRICING SUMMARY
RFP No. 2661-SM-115 - DEAERATOR

	KANSAS CITY	STERLING	ECODYNE
Base Price	$95,580.00	$97,880.00	$96,500.00
Required Items Quoted as Optional:			
One piece construction tray	$2,500.00	$2,144.00 (2)	(Incld'. in Base Price)
Delete strongbacks	$0.00 (5)	-$820.00	-$1,000.00
Full vacuum design	(Incld'. in Base Price)	(Incld'. in Base Price)	$350.00
Stainless steel internal baffles	(Incld'. in Base Price)	(Incld'. in Base Price)	$150.00
Design temp. = 750 oF	$1,200.00 (4)	(Incld'. in Base Price)	(Incld'. in Base Price)
Shop installed trays	(Incld'. in Base Price)	(Incld'. in Base Price)	$250.00
SUBTOTAL (Options)	$3,700.00	$1,324.00	-$250.00
TOTAL EQUIPMENT COST (w/options)	**$99,280.00**	**$99,204.00**	**$96,250.00**
Other Options:			
Ground smooth welds (Designation C)	$2,250.00	(See Note 3)	$850.00
Start-up spares	$300.00 (1)	$180.00	$362.00
Evaluated Costs:			
(NONE)			

NOTES: (1) Did not specifically quoted start-up spares. This cost was taken from operational spares for two manway gaskets.
(2) The optional price is for welded trays, not one-piece construction as per the Specification.
(3) Designation C without "blend grinding" included in Base Price. This meets specification requirement.
(4) Cost includes the necessary reinforcing pads to meet design temperature requirements. KC quoted $3,600.00 to use thicker shell.
(5) KC base offer did not include strongback assemblies.

ATTACHMENT 5

BID ABSTRACT

Burns and Roe Enterprises, Inc.

W/O: 2661 Lee County Expansion Project
RFP 2661-SM115 DEAERATOR
BUDGET: $

DEAERATOR

ITEM	QTY	UNIT	DESCRIPTION	1 KANSAS CITY DEAERATOR	2 STERLING DEAERATOR	3 ECODYNE LIMITED	4 CRANE ENVIRONMENTAL	5
1	1	ea	DEAERATOR COMPLETE	**$ 95,580.00**	**$ 97,880.00**	**$ 96,500.00**	**NO - BID**	
			INCLUDING All NECESSARY					
			COMPONENTS,INTERNALS,					
			,APPURTENANCES, CONTROLS					
			INTERCONNECTED,PIPED					
			WIRED, PAINTED,AND TESTED					
			Adjustment Carried Fwd Attach#4	$3,700	$1,324	-$ 250.00		
			SubTotal	$ 99,280.00	$ 99,204.00	$ 96,250.00		
			Start-up Spares (2 sets Gaskets))30	$ 300.00	$ 180.00	$ 362.00		
			Freight Adjustment (Reduction)	N/A	-$ 5,000.00	N/A		
			SubTotal	$ 99,580.00	$ 94,384.00	$ 96,612.00		
			PERFORM./PAYMENT BONDS	**NO**	ADD	ADD		
					$ 3,500.00	Included in Base Price		
			100% LETTER OF CREDIT	YES (100%) ADD				
				$ 4,000.00				
			DEDUCT- Bonds/LOC	N/A	N/A	-$ 250.00		
			GRAND TOTAL(Excl. Tax-	$ 99,580.00	$ 94,384.00	$ 96,362.00		
			and Perform/Pay Bonds)					
			Drawings Submitted	2-4 wks ARO	3-4wks ARO	2-4wks ARO		
			Delivery of material	16-20wks ADA	16-20wks ADA	14-16wks ADA		
			PAYMENT TERMS	PROGRESS NET30	PROGRESS NET30	PROGRESS NET30		
			F.O.B. Delivered DESTINATION	Ft. Myers	Ft. Myers	Ft. Myers		
			EXCEPTIONS					
			TECHNICALLY ACCEPTABLE	**YES**	**NO**	**YES**		

AWARD RECOMMENDATION:

REASON FOR RECOMMENDATION:

PREPARED BY: **Joe DiLiberti** **DATE:** **4/12/2005**

REVIEWED BY: **DATE:**

Lindsey Sampson - Deaerator Bid Evaluation - Selection and Recommendation

From: "Young,Peter" <pyoung@CovantaEnergy.com>
To: "Dennis Iavarone" <diavarone@roe.com>, <SAMPSOLJ@leegov.com>
Date: 4/26/2005 5:59 PM
Subject: Deaerator Bid Evaluation - Selection and Recommendation
CC: "Stuhrke,Steve" <sstuhrke@roe.com>, "Anacker,Dennis" <danacker@CovantaEnergy.com>, "Jim Kelly" <jkelly1119@verizon.net>, "D'Amico,Don" <ddamico@roe.com>, "Howard,Jody" <Jody_Howard@CovantaEnergy.com>

Covanta has reviewed B&R's Deaerator bid evaluation dated April 13, 2005 and issued/posted on April 15, 2005. Covanta does not concur with B&R's selection of Ecodyne's Deaerator.

There are technical problems associated with the older style deaerator design that Ecodyne has offered. Such problems make this offer technically inferior to the Sterling and Kansas City designs. Both of these competitors have incorporated a new header distribution design above the trays in lieu of the inlet water box design offered by Ecodyne. The header distribution design provides better mixing of hot condensate and cold makeup water before spraying. Mixing of these streams in an inlet water box can cause vibration and damage in the water box area of the Ecodyne model. Water box weld and vent piping weld cracking has also been experienced in the Ecodyne type design, and this is why the other manufacturers have gone to the internal header distribution design.

Based on Kansas City's evaluated price being approximately only 3% greater than Ecodyne's price of $96,362, and B&R finding Kansas City's offer technically acceptable, Covanta recommends proceeding with the selection of Kansas City's offer, pending satisfactory resolution of some remaining commercial issues noted in B&R's bid Evaluation. (Note: If such commercial issues are not resolved timely, Covanta would then consider Sterling's offer pending resolution of any remaining open issues associated with their offer).

Covanta also recommends that the selected vendor be required to furnish all of its nozzle ends in the same material as the pipe to which it must be field welded (the demineralized water connection is the only nozzle known at this time that would be affected). This requirement will place the welding of dissimilar metals in a more controlled shop environment and avoid field welding of dissimilar metals.

Required Actions:

1. B&R to finalize its bid evaluation on Kansas City's offer, including the addition of the nozzle material requirement recommended above, establishment of the recommended award price for Kansas City's deaerator and resolution of the commercial issues.
2. Upon receipt of the above Item 1, County to advise concurrence with the Kansas City selection.
3. Upon the County's concurrence, B&R to issue the Term Sheet and conformed Specification for County to process an award.

Peter

-----Original Message-----
From: Serrette,Pat
Sent: Friday, April 15, 2005 2:50 PM
To: Ekhalikar@aaesengineering.com; Sagar,Amrit; Anacker,Dennis; Gounaris,Demetrios; Holmes,Jack; Howard,Jody; Duff,Michael; Young,Peter; Harbison,Russell; Libertell,Trish; AvogliMS@leegov.com; sampsolj@leegov.com; Andrew Preisler; D'Amico,Don; Dennis Iavarone; Rubin,Ira; Joseph Craven; John Ferrari; Justin Mathew; Cole,Kevin; Patel,Manu; Stuhrke,Steve; jkelly1119@verizon.net
Subject: Transmittal T-M-057 Bid Evaluation SM-115 Deaerator

The document(s) list in the attached transmittal has/have been issued and posted to the project website. You will find them under webprojects\vaults\02661-001-Lee County WTE Expansion\BREI Released Documents\Bid Evaluations\and then the applicable sub-vault.

Patricia F. Serrette
Burns & Roe Enterprises
800 Kinderkamack Road
Oradell, NJ 07649
(201) 986-4098
pserrette@roe.com

Lindsey Sampson - FW: Transmittal T-M-063 SM-115 Deaerator Revision 1 Bid Evaluation

From: "Young,Peter" <pyoung@CovantaEnergy.com>
To: "Dennis Iavarone" <diavarone@roe.com>, "Lindsey Sampson" <SAMPSOLJ@leegov.com>
Date: 5/18/2005 9:23 AM
Subject: FW: Transmittal T-M-063 SM-115 Deaerator Revision 1 Bid Evaluation
CC: "Anacker,Dennis" <danacker@CovantaEnergy.com>, "Stuhrke,Steve" <sstuhrke@roe.com>, "D'Amico,Don" <ddamico@roe.com>

This email supplements and reconfirms Covanta's April 26, 2005 email providing our initial selection and recommendation for the KC Deaerator supply.

Covanta has reviewed B&R's Deaerator Bid Evaluation, Rev.1, dated 4/28/05 and concurs with the revised recommended award to Kansas City Deaerator(KC) with the B&R recommended options. The associated price is $99,580 versus the March 13, 2005 Estimate of $162,924.

Covanta has experience with KC. KC offers heavier duty trays. The headers and spray valves are easily accessed and removed for repair if necessary. KC's design clearly addresses a known problem of water box to shell weld cracking that Ecodyne's offer does not clearly address. On an overall evaluation, the value of KC's proposed product outweighs Ecodyne's product by more than their $3,218 difference in pricing (Ecodyne's price is $96,362).

Actions & Schedule:
B&R to proceed immediately in completing and submitting the Term Sheet and conformed specification. This Term Sheet should be provided to the County no later than Tuesday, May 24, 2005. B&R should also finalize the Terms & Conditions document with KC and correspond with Lee County on any proposed changes to our standard terms.

Assuming receipt of B&R's Term Sheet by May 24th, County to place the approval of this Order onto the BOCC agenda for the meeting of June 6, 2005.

Please promptly contact me if there are any questions, concerns, or need for clarification.

Peter

-----Original Message-----
From: Serrette,Pat
Sent: Friday, April 29, 2005 12:58 PM
To: Ekhalikar@aaesengineering.com; Sagar,Amrit; Anacker,Dennis; Gounaris,Demetrios; Holmes,Jack; Howard,Jody; Duff,Michael; Fulco,Nilma; Young,Peter; Harbison,Russell; Libertell,Trish; AvogliMS@leegov.com; sampsolj@leegov.com; Andrew Preisler; D'Amico,Don; Dennis Iavarone; Rubin,Ira; Joseph Craven; John Ferrari; Justin Mathew; Cole,Kevin; Patel,Manu; Stuhrke,Steve; jkelly1119@verizon.net

Subject: Transmittal T-M-063 SM-115 Deaerator Revision 1 Bid Evaluation

The document(s) list in the attached transmittal has/have been issued and posted to the project website. You will find them under webprojects\vaults\02661-001-Lee County WTE Expansion\BREI Released Documents\Bid Evaluations\and then the applicable sub-vault.

Patricia F. Serrette
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