CITY OF HIGH POINT AGENDA ITEM



Title: Tantalus Advanced Metering Infrastructure Master Agreement

From: Eric Olmedo, Assistant City Manager Meeting Date: January 18, 2022

Public Hearing: None

Advertising Date /
Advertised By:

Attachments: Exhibit III

PURPOSE:

Council is requested to approve a master services agreement with Tantalus Systems, Inc. to install advanced metering infrastructure equipment.

BACKGROUND:

The City of High Point has selected Tantalus Systems, Inc. to install advanced metering infrastructure equipment to collect water/sewer and electric usage data for bill generation. An advanced metering infrastructure (AMI) system includes communications hardware, software, data management software and associated systems that creates a two-way network between advanced meters, meter modules, and utility business systems. The system will allow staff to accurately respond to outages and water leaks, allows for remote disconnect and reconnect of services, offers a much more robust customer information portal, and allows for pre-payment of utility services.

The project will start with a 500-site initial deployment area, and upon successful implementation of the initial area, will be followed up by a managed roll out citywide. The entire process is expected to be complete within 24 months. In addition to the current agreement, additional contracts for project management and acquisition of a meter data management system will be brought to City Council for approval in the near future.

Request for Proposals were received from eight vendors, and five were selected to present to a staff team made up of members of the Customer Service, Electric, Public Services, IT and Finance Departments and City Manager's Office. Three firms were asked back for final presentations, and Tantalus was selected. The City Council was briefed on AMI and Tantalus at its September 20, 2021 Special Meeting and gave staff approval to negotiate final terms with Tantalus. Final pricing is upfront costs of \$6,191,886.11 and annual costs of \$55,937.58.

BUDGET IMPACT:

Funds are available in the Electric Capital Fund for the upfront costs. The annual costs will be budgeted in the appropriate department operating budgets.

RECOMMENDATION / ACTIONS REQUESTED:

Staff recommends and asks the Council to approve the master services agreement with Tantalus Systems, Inc. and authorize the appropriate city official to execute all necessary documents.

		Exhibit III - Final Pricing			
		Network Equipment and Software			
Net WAN/LAN Equipme	ent ("Network Equip	ment")			
Associated Phase	Product Code	Description	Quantity	Unit Price	Ext.
Phase 1	VC-934	Versa Collector ("Tantalus Versa Gateway")	56 \$	3,400.00 \$	190,40
Phase 1 Phase 1	VC-820-VZ TR-1901	Verizon Cellular Modem ("Modem") Pole-Mounted 900MHz LAN Repeater ("Tantalus Repeaters")	28 \$ 84 \$	975.00 \$ 289.00 \$	27,30 24,27
Phase 1	DT-116	Centron Reset Key	2 \$	32.85 \$	24,27
Phase 1	DT-420-VM-BUN	Field Deployment Tool Starter Kit with Scanner, Optical Dongle, USB	1 \$	2,700.00 \$	2,70
r nase 1	D1-420- VIVI-BUN	Ethernet Hub, USB Key		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-
		TOWN I A CO. A CO. A CO.		cture Discount \$	(241,97
		TUNet Infrastructure ("Net	work Equipmer	it") Sub Total \$	2,76
Net Server & Software ('	"Software")				
Associated Phase	Product Code	<u>Description</u>	Quantity	Unit Price	Ext.
Phase 1	TCC-2020	TCC Headend Software License (including embedded Oracle license	1 \$	80,000.00 \$	80,0
		subject to the terms of the Agreement)			
Phase 1 Phase 1	TLU-010 SV-4040	TCC Headend Upgrade for 15 Minute Intervals	1 \$ 12 \$	40,000.00 \$ 2,700.00 \$	40,00
500 with Phase 1		TCC Hosting Per Month			32,40
41,441 with Phase 2	NSE-201	TUNet Software License - per Electric Endpoint	41,941 \$	3.50 \$	146,7
Phase 1	TAL-410-5	TUNet Application for Existing Water ERT Read (max 80k devices) (for	1 \$	100,000.00 \$	100,0
		reading of HPU's "AWMIUs")			
TBD	PPA-1000	Polyphase Software - per Endpoint	4 \$	11,000.00 \$ oftware") Total \$	44,0 443,1
			·		410,1
		TUNet Equipment and Services ("Network Equipme	ent and Softv	vare") Total \$	445,95
		W.L. IW.			
		Modules and Meters			
ntalus Communication M	lodules (Integration 1	Included) ("Modules")			
Associated Phase	Product Code	<u>Description</u>	Quantity	Unit Price	Ext. Price
500 with Phase 1 37,460 with Phase 2	TC-1220-RD	Tantalus Residential Remote Disconnect Module for Itron C2SXD Meters	37,960	\$46.50 \$	1,765,1
Phase 2	TC-1216	Tantalus Residential Non-Disconnect Modules	145	\$46.50 \$	6,7
Phase 2	TC-1214	Tantalus Residential Remote Disconnect Module for L&G Axe Meters	152	\$46.50 \$	7,0
TBD	PP-1316	Tantalus Commercial Module	3,714	\$140.00 \$	519,9
			N	Iodule Total	\$2,298,91
eter Pricing ("Meters")					
hird-Party Products)		_	0	H. 'A D.'	E + D !
Associated Phase Phase 2	TBD	Itron Centron Single phase 1S	Quantity 10	Unit Price \$81.11 \$	Ext. Price 8
500 for Phase 1	TBD	Itron Centron 2 Single phase 2S w/ remote disconnect	37,960	\$65.66 \$	2,492,4
Phase 2	TBD	Itron Centron Single phase 3S	108	\$81.11 \$	8,7
Phase 2	TBD	Itron Centron Single phase 4S	27	\$81.11 \$	2,1
Phase 2	TBD	L&G Axe Single phase class 320 w/ remote disconnect	152	\$159.65 \$	24,2
TBD	TBD	Itron CentronPoly 9S	1,333	\$186.39 \$	248,4
TBD	TBD	Itron CentronPoly 16S	1,346	\$186.39 \$	250,8
TBD TBD	TBD TBD	Itron CentronPoly 12S Itron CentronPoly 45S	246 171	\$186.39 \$ \$186.39 \$	45,8 31,8
TBD	TBD	Itron CentronPoly 458 Itron CentronPoly Demand and TOU	528	\$186.39 \$ \$186.39 \$	31,8 98,4
TBD	TBD	Itron CentronPoly Reactive Metering	30	\$186.39 \$	5,5
		·		Meter Total	\$3,209,55
		<u>Services</u>			
ject Management and No	etwork Equipment Ir	<u>ıstallation</u>			
Associated Phase			Quantity	Unit Price	Ext. Price
Phase 1	INS-6001	Infrastructure ("Network Equipment") Installation	1 \$	71,416.00 \$	71,4
Phase 1	SV-6000	Infrastructure Turnkey Services - (Includes infrastructure programming and	1 \$	18,840.00 \$	18,8
1 nast 1	51-0000	configuration; pole location surveys; optimization; Quality Assurance)	1 3	10,040.00 \$	10,0
Phase 1 & Phase 2: See					
Deployment Services	SV-1000	Deployment Services - 18 mo.	1 \$	142,210.00 \$	142,2
		1 2	ι ψ	- : <u>-</u> ; <u>-</u>	112,2
		D'	Itallatia (Crand Total ©	232,460
filestone Table(s) below.		Project Management and	installation v	Grand Total \$	
		Project Management and Estimated Shipping Costs	1 \$	5,000.00 \$	5,00
lilestone Table(s) below.			1 \$		

Associated Phase	TUNet System	Annual Support & Maintenance	Quantity	Unit Price		Ext. Price
Year 2	SM-2040	TUNet software maintenance, 1 yr, Includes all annual Tantalus & 3rd party licenses	1	\$ 30,000.00	\$	30,000.00
Year 2	SM-4000	Annual ERT License Maintenance	1	\$ 10,000.00	\$	10,000.00
Year 2	SL-2001	TUNet Technical Support - Standard Level	41,941	\$ 0.38	\$	15,937.58
TUNet System Annual Support & Maintenance Total \$			55,937.58			

Pricing Notes & Assumptions:

- All fees are in US dollars.
- All prices/service fees exclude applicable taxes.
- Initial Deployment Services are billed on milestones. In the event that additional days are necessary for the Deployment Services due to Customer electing Additional Services or an Excusing Event, Customer will be billed at the rate of \$1,500 per day.
- Annual System Support is available in both Premium and Standard Level. Changes to the Technical Support level elected by Customer are subject to the notice requirements described in Exhibit B Technical Support.
- Pricing assumes there are no changes or additions to other system factors, including without limitation, deployed meter quantities, software licenses, features and functionalities, server hardware/platforms.
- Additional Services (as defined in Addendum A-1 to the EULA) will be priced pursuant to Tantalus' then-current price list and quoted by Tantalus, as applicable, upon receipt of a written request from Customer. In the event of such changes, the price for annual Maintenance and Support Services is subject to increase.

PHASE 1 INVOICING

Deployment Services Milestones					
Phase 1 Milestones	Percentage of SV-1000 Payment Due				
Project Setup/kickoff	\$	3,500.00			
TCC (HES) Installed	\$	11,000.00			
System Design Complete	\$	7,200.00			
Initial Training Session	\$	12,500.00			
System Integration	\$	22,000.00			
Network Deployment	\$	7,200.00			
Second Training	\$	12,500.00			
ISAT	\$	12,500.00			
IDA Project Complete	\$	3,805.00			
Total SV-1000 (Phase 1)	\$	92,205.00			

<u>Bill of Materials</u>			
Phase 1 Products	Quantity		
VC-934	56		
VC-820-VZ	28		
TR-1901	84		
DT-116	2		
DT-420-VM-BUN	1		
Itron Centron 2 Single phase 2S w/remote disconnect	500		
Itron CentronPoly 9S	50		
INS-6001	1		
SV-6000	1		
TC-1220-RD	500		
PP-1316	50		
TCC-2020	1		
TLU-010	1		
SV-4040	12		
NSE-201	500		
TAL-410-5	1		
Total Product Cost (Phase 1)	\$ 419,571.20		

<u>Phase 1 Tantalus Totals</u>				
<u>Invoice</u> <u>Percentage</u>	<u>Dollar Amount</u>			
90%	\$	358,389.63		
10%	\$	39,821.07		
Total	\$	398,210.70		

Phase 1 Third Party Totals				
<u>Invoice</u> <u>Percentage</u>	<u>Dollar Amount</u>			
100%	\$	113,565.50		
Total	\$	113,565.50		

NOTE: Shipping estimates have not been included as they will be determined at the time of shipment and billed accordingly.

PHASE II INVOICING

Deployment Services Milestones				
Phase II Milestones	Percentage of SV-1000			
Thase IT Wifestones	Payment Due			
System Design Complete	\$	14,000.00		
Third Training	\$	12,500.00		
FourthTraining	\$	12,500.00		
FSAT	\$	7,200.00		
Phase 2 Project Complete	\$	3,805.00		
Total SV-1000 (Phase 2)	\$	50,005.00		
		,		
Phase II Produ	<u>cts</u>			
<u>Description</u>		Quantity		
Itron Centron 2 Single phase 2S w/		37,460		
remote disconnect				
Itron Centron Single phase 1S		10		
Itron Centron Single phase 3S		108		
Itron Centron Single phase 4S		27		
L&G Axe Single phase class		152		
320 w/ remote disconnect				
Itron CentronPoly 9S		1,283		
Itron CentronPoly 16S		1,346		
Itron CentronPoly 12S		246		
Itron CentronPoly 45S		171		
Itron CentronPoly Demand and TOU		528		
Itron CentronPoly Reactive Metering		30		
PP-1316		3,664		
TC-1220-RD		37,460		
TC-1216		152		
TC-1214		145		
PPA-1000		4		
NSE-201		41,441		
Total Product Cost (Phase II)	\$	5,625,104.91		
Phase II Tantalus	<u> Fota</u>			
Invoice Percentage		Dollar Amount		
90%	\$	2,256,938.10		
10%	\$	250,770.90		
Total	\$	2,507,709.00		
DI HELL IR	70-			
Phase II Third Party	y 10			
Invoice Percentage	Ė	Dollar Amount		
100%	\$	3,167,400.91		
Total	\$	3,167,400.91		

NOTE: Shipping estimates have not been included as they will be determined at the time of shipment and billed accordingly.

Tantalus is the Recommend Vendor

Best balance of functionality, references and costs



Functionality

- Highest scores for requirements
- Highly rated software by employees
- Scalability for future smart city programs
- 4) Similar network and meter proposed by all bidders



Simplicity

- Water and Electric over same network
- 2) Software provided by Tantalus without an MDM
- 3) Can leave water meters in place.
- 4) Support coming from Raleigh. NC
- 5) MultiSpeak Integration



Customer Satisfaction and Cultural Fit

- Focus on public power utilities like the City of High Point
- 2) Strong references
- Heavy focus on customer satisfaction



Price

- Over \$4 million in 15year savings versus second lowest priced vendor
- Extend life of existing water meters

Next Steps: 1) Contract negotiation, 2) Council approval, 3) Pilot/Initial Deployment Area