

# CITY OF HIGH POINT

## AGENDA ITEM



**Title:** Purchase of Equipment for Linden Substation Upgrade  
**Bid No.** 38-011818

**From:** Garey S. Edwards, Electric Utilities Director

**Meeting Date:** February 19, 2018

**Public Hearing:** N/A

**Advertising Date /**

**Advertised By:** N/A

**Attachments:** Attachment A: Southeastern Consulting Engineers Recommendation  
Attachment B: Bid Tabulation

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### PURPOSE:

This equipment will be used for the upgrade of the Linden Substation to increase reliability and replace older equipment.

### BACKGROUND:

Over the past several years the Electric Department has been converting the old 69 kV transmission system to a 100 kV system. All this equipment will continue the conversion work from 69 kV to 100 kV that is planned for the upgrade at the Linden Substation.



### BUDGET IMPACT:

Funds are available in the 2017-2018 Annual Budget.

### RECOMMENDATION / ACTION REQUESTED:

Council is requested to award contract to:

Schedule I to Substation Enterprises, Inc. for \$114,324.00

Schedule II to ABB, Inc. for \$145,202.00

Schedule III to Siemens Industry, Inc. for \$148,228.00

Schedule IV to Birmingham Control Systems, Inc. for \$126,990.00

**The Total Cost for the four schedules is: \$534,744.00**



# Southeastern Consulting Engineers, Inc.

February 6, 2018

Mr. Garey Edwards, PE  
City of High Point  
PO Box 230  
High Point, North Carolina 27261

Ref.: Linden Substation Equipment

Dear Garey:

The City received sealed proposals on January 25, 2018, from thirteen suppliers solicited for providing substation equipment that will be installed at the City's Linden Substation. Each bid was reviewed for compliance with the technical specifications and purchase price. Based on the preceding factors the following vendors submitted the lowest responsive and compliant bid:

## **Schedule I – Substation Structure**

Substation Enterprises, Inc.  
145 Commercial Court  
Alabaster, AL 35007  
Project # FK-3326

Total Lump Sum Bid                      \$114,324.00  
Delivery                                        16 weeks

## **Schedule II – 121 kV Circuit Breakers**

ABB, Inc.  
100 Distribution Circle  
Mount Pleasant, PA 15666  
QT-19-00939415  
Delivery 16-20 Weeks

Description	Quantity	Unit Price	Total Price
145PM40-20C	3	\$43,704.00	\$131,112.00
Field Service			\$14,090.00
<b>Total</b>			<b>\$145,202.00</b>

**Schedule III – 15 kV Circuit Breakers**

Siemens Industry, Inc.  
7000 Siemens Road  
Wendell, NC 27591  
Order # SF171193568  
Delivery 16-18 Weeks

Description	Quantity	Unit Price	Total Price
SDV-SE-15.5kV-20kA-2000A	2	\$17,730.00	\$35,460.00
SDV-SE-15.5kV-20kA-1200A	8	\$14,096.00	\$112,768.00
Total			<b>\$148,228.00</b>

**Schedule IV – Relay and Control Panels**

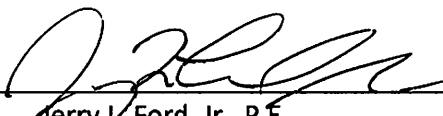
Birmingham Control Systems, Inc.  
1205 Eighth Street West  
Birmingham, AL 35204  
Quote # Q18002  
Delivery 12-14 Weeks

Description	Quantity		Total Price
Linden	1		\$86,995.00
McCaslin	1		\$39,995.00
Total			<b>\$126,990.00</b>

The total cost for the four schedules is \$534,744.00. We recommend that the City accept the proposals and issue a purchase order to the above Vendors. If you have any questions, please do not hesitate to contact us.

Very truly yours,

SOUTHEASTERN CONSULTING ENGINEERS, INC.

By   
Jerry L. Ford, Jr., P.E.  
Senior Design Engineer

cc: Mr. Philip Hiatt, PE

**BID TABULATION**  
Linden Substation Upgrade  
 Bid No. 38-011818

City of High Point  
High Point, North Carolina

Date: January 25, 2018  
 Time: 2:00 PM, EST

<b><u>BIDDER</u></b>	<b><u>ABB</u></b>	<b><u>AZZ Switchgear</u></b>	<b><u>Birmingham Control System</u></b>	<b><u>Distran</u></b>	<b><u>EP<sup>2</sup></u></b>
<b><u>Schedule I</u></b>					
Substation Structure & Appurtenances	N/A	N/A	N/A	\$112,979.00	N/A
Manufacturer:				Whitlow Elec.	
Delivery:				18 Weeks	
<b><u>Schedule II</u></b>					
121 KV Circuit Breaker (3)	\$131,112.00	N/A	N/A	\$145,691.00	N/A
Field Service	\$14,090.00			<u>\$14,090.00</u>	
<b>Total</b>	<b>\$145,202.00</b>			<b>\$159,781.00</b>	
Manufacturer:	ABB			ABB	
Delivery:	16-20 Weeks			24 Weeks	
<b><u>Schedule III</u></b>					
Circuit Breakers - 2000A Main (2)	\$36,420.00	N/A	N/A	\$40,823.00	N/A
Circuit Breakers - 1200A Feeder (8)	<u>\$127,640.00</u>	N/A	N/A	<u>\$143,540.00</u>	N/A
<b>Total</b>	<b>\$164,060.00</b>			<b>\$184,363.00</b>	
Manufacturer:	ABB			ABB	
Delivery:	17 Weeks			24 Weeks	
<b><u>Schedule IV</u></b>					
Relay and Control Board-Linden	N/A	\$104,758.00	\$86,995.00	N/A	\$94,771.00
Relay and Control Board-McCaslin	N/A	<u>\$47,162.00</u>	<u>\$39,995.00</u>	N/A	<u>\$46,541.00</u>
<b>Total</b>		<b>\$151,920.00</b>	<b>\$126,990.00</b>		<b>\$141,312.00</b>
Manufacturer:		AZZ	BCS		EP <sup>2</sup>
Delivery:		10-12 Weeks	12-14 Weeks		12-14 Weeks
<b><u>Schedule V - No Bids</u></b>					
Bid Bond	X	X	X	X	X

**BID TABULATION**  
Linden Substation Upgrade  
 Bid No. 38-011818

City of High Point  
High Point, North Carolina

Date: January 25, 2018  
 Time: 2:00 PM, EST

**BIDDER**

**Schedule I**

Substation Structure & Appurtenances  
 Manufacturer:  
 Delivery:

**Hitachi**

**Keystone**

**MD Henry**

**Myers**

**Peak**

N/A

N/A

\$121,080.00  
 MD Henry  
 18-20 Weeks

N/A

\$120,900.00  
 Peak  
 14-16 Weeks

**Schedule II**

121 KV Circuit Breaker (3)  
 Field Service  
**Total**  
 Manufacturer:  
 Delivery:

\$147,000.00

\$6,100.00

**\$153,100.00**

Hitachi

16-18 Weeks

N/A

N/A

N/A

N/A

**Schedule III**

Circuit Breakers - 2000A Main (2)  
 Circuit Breakers - 1200A Feeder (8)  
**Total**  
 Manufacturer:  
 Delivery:

N/A

N/A

N/A

N/A

N/A

N/A

\$40,168.00

\$166,132.00

**\$206,300.00**

Myers

16-18 Weeks

N/A

N/A

**Schedule IV**

Relay and Control Board-Linden  
 Relay and Control Board-McCaslin  
**Total**  
 Manufacturer:  
 Delivery:

N/A

N/A

\$95,747.54

\$43,605.20

**\$139,352.74**

Keystone

12-14 Weeks

N/A

N/A

N/A

N/A

N/A

N/A

**Schedule V - No Bids**

Bid Bond

X

X

X

X

X

**BID TABULATION**  
Linden Substation Upgrade  
Bid No. 38-011818

City of High Point  
High Point, North Carolina

Date: January 25, 2018  
Time: 2:00 PM, EST

<b><u>BIDDER</u></b>	<b><u>Substation Enterprises</u></b>	<b><u>Tatman Assoc.</u></b>	<b><u>N.T.S. Siemens</u></b>
<b><u>Schedule I</u></b>			
Substation Structure & Appurtenances	\$114,324.00	\$152,000.00	N/A
Manufacturer:	S. E.	Tatman	
Delivery:	14-16 Weeks	20-22 Weeks	
<b><u>Schedule II</u></b>			
121 KV Circuit Breaker (3)	N/A	N/A	\$142,500.00
Field Service			<u>\$7,500.00</u>
<b>Total</b>			<b><u>\$150,000.00</u></b>
Manufacturer:			Siemens
Delivery:			18-20 Weeks
<b><u>Schedule III</u></b>			
Circuit Breakers - 2000A Main (2)	N/A	N/A	\$35,460.00
Circuit Breakers - 1200A Feeder (8)	N/A	N/A	<u>\$112,768.00</u>
<b>Total</b>			<b><u>\$148,228.00</u></b>
Manufacturer:			Siemens
Delivery:			16-18 Weeks
<b><u>Schedule IV</u></b>			
Relay and Control Board-Linden	N/A	N/A	N/A
Relay and Control Board-McCaslin	N/A	N/A	N/A
<b>Total</b>			
Manufacturer:			
Delivery:			
<b><u>Schedule V - No Bids</u></b>			
Bid Bond	X	X	X