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April 6, 2015
Project No. 12255-012
Letter No. SL-RMU-CARON-012-15-007X

Rochelle Municipal Utilities
Expansion of the Caron Road Substation

Specification 12255-012-05, 138kV Capacitor Voltage Transformers
Sargent & Lundy Letter of Recommendation

Mr. Joe Orlikowski
Electric Operations Superintendent
Rochelle Municipal Utilities
700 West 2nd Ave
Rochelle, IL. 61068

Dear Mr. Orlikowski,

This letter summarizes Sargent & Lundy, L.L.C.'s (S&L) recommendation for S&L Specification 12255-012-05, 138kV Capacitor Voltage Transformers.

Scope of Supply

The 138kV Capacitor Voltage Transformers Specification Scope of Supply includes the design, manufacture, and delivery F.O.B. to the site, three, 80,500V, 700/1200:1, 10,400 pf capacitor voltage transformers. Bid packages were received from Trench and ABB.

Bid Evaluation

The proposal prices and deliveries for the 138kV Capacitor Voltage Transformers are summarized below:

<u>Bidder</u>	<u>Original Total Firm FOB Site Price</u>	<u>Lead Time</u>
Trench	\$28,125	18-20 wks ARO
ABB	\$28,554	26 wks ARO + 3 wks for delivery

The project estimate had an estimated cost for the capacitor voltage transformers at \$24,000.

The bid review evaluated price, delivery and compliance to the specification.

Compliance to the Specification

Trench is quoting a device capacitance of 16,500 pf, and can meet the specified 0.3 W, X, Y, Z and ZZ burden requirements. They identified a \$400/unit cost reduction if the ZZ burden was not required on the third winding. Additionally, Trench is the same CCVT vendor that was utilized during the initial Caron Road Substation Project.

ABB is quoting a device capacitance of 15,400 pf and cannot provide the 0.3ZZ burden, as required in the specification. Additionally, ABB can provide one 1.5" conduit entry in the bottom in lieu of the requested 2" and two 1.25" conduit entrees in the sides.

Trench is quoting a warranty period of 36 months from delivery and ABB is quoting a warranty period of 12 months from initial operation with a not to exceed of 18 months from shipment.

Both bidders require full payment within 30 days of material delivery.

Terms and Conditions:

All of the bidders provided minor comments to the RMU's General Conditions for Equipment and Material Purchases (Form 201AE-04-18-05) and the Special Conditions information. These comments will be resolved during contract negotiations.

Recommendation:

In summary, Trench was found to be technically acceptable and there are minor comments to the terms and conditions requiring closure during contract negotiation.

For the bid evaluation, it is our recommendation that Trench be awarded the contract in the amount of \$28,125.

If you have any questions or want to discuss this matter, please call Michelle Hack at (312) 269-6950 or Zafar Ashrafi at (312) 269-3565.

Yours Very Truly,



Thomas R. Eisenbart
Project Director

MLH/TRE:dg
cc: M. S. Zar
cc: Z. Ashrafi
cc: R. Mrozek

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April 6, 2015
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Letter No. SL-RMU-CARON-012-15-005X

Rochelle Municipal Utilities
Expansion of the Caron Road Substation

Specification 12255-012-03, 138kV Centerbreak "Vee" Type Manual Operated Disconnect Switches
Sargent & Lundy Letter of Recommendation

Mr. Joe Orlikowski
Electric Operations Superintendent
Rochelle Municipal Utilities
700 West 2nd Ave
Rochelle, IL. 61068

Dear Mr. Orlikowski,

This letter summarizes Sargent & Lundy, L.L.C.'s (S&L) recommendation for S&L Specification 12255-012-03, 138kV Centerbreak "Vee" Type Manual Disconnect Switches.

Scope of Supply

The 138kV Manual Type Disconnect Switches Specification Scope of Supply includes the design, manufacture, and delivery F.O.B. to the site, six, 62,500 A Short Time Symmetrical Current, 2000A Continuous, manually operated "VEE" type disconnect switches. Bid packages were received from Wesco, Cleaveland Price, Southern States, Alstom, and Pascor Atlantic.

Bid Evaluation

The proposal prices and deliveries for the 138kV Disconnect Switches are summarized below (if a delivery window was provided, the end date of the window was used):

<u>Bidder/Switch Manufacturer</u>	<u>Original Total Firm FOB Site Price</u>	<u>Meet Delivery Date of 8/14/2015</u>
Wesco	\$56,386	Yes
Southern States	\$60,042	Yes
Cleaveland Price	\$62,700	Yes
Alstom	\$68,930	No
Pascor Atlantic	\$71,862	Yes

Wesco is quoting the USCo Disconnect Switches.

The project estimate had an estimated cost for the disconnect switches at \$72,000.

We narrowed the bid review to the following three suppliers based on price, delivery and their compliance to the specification: Wesco, Southern States and Cleaveland Price.

Compliance to the Specification

For each of the suppliers, the disconnect switches quoted are all rated equally, and technically meet the material specification.

Wesco had the shortest lead time at 11 weeks ARO and they are quoting a 10 year warranty. Additionally, Wesco is quoting the same switch that was purchased for the initial Caron Road Substation project.

Southern States quoted a 14 week lead time ARO with a 5 year warranty after shipment and Cleaveland Price is quoting a 16-18 week lead time ARO with a 5 year warranty after shipment.

Terms and Conditions:

All of the bidders provided minor comments to the RMU's General Conditions for Equipment and Material Purchases (Form 201AE-04-18-05) and the Special Conditions information. These comments will be resolved during contract negotiations.

Recommendation:

In summary, all of the bidders were found to be technically acceptable and there are minor comments to the terms and conditions requiring closure during contract negotiation.

For the bid evaluation, it is our recommendation that Wesco be awarded the contract in the amount of \$56,386.

If you have any questions or want to discuss this matter, please call Michelle Hack at (312) 269-6950 or Zafar Ashrafi at (312) 269-3565.

Yours Very Truly,



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cc: M. S. Zar
cc: Z. Ashrafi
cc: R. Mrozek

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April 6, 2015
Project No. 12255-012
Letter No. SL-RMU-CARON-012-15-006X

Rochelle Municipal Utilities
Expansion of the Caron Road Substation

Specification 12255-012-04, 138kV SF6 Dead Tank Circuit Breaker
Sargent & Lundy Letter of Recommendation

Mr. Joe Orlikowski
Electric Operations Superintendent
Rochelle Municipal Utilities
700 West 2nd Ave
Rochelle, IL. 61068

Dear Mr. Orlikowski,

This letter summarizes Sargent & Lundy, L.L.C.'s (S&L) recommendation for S&L Specification 12255-012-04, 138kV SF6 Dead Tank Circuit Breaker.

Scope of Supply

The 138kV Circuit Breaker Specification Scope of Supply includes the design, manufacture, and delivery F.O.B. to the site, one, 2000A Continuous, 40,000 A interrupting, dead tank, SF6 puffer circuit breaker. Bid packages were received from Alstom and ABB.

Bid Evaluation

The proposal prices and deliveries for the 138kV Circuit Breaker are summarized below:

<u>Bidder</u>	<u>Original Total Firm FOB Site Price</u>	<u>Lead Time</u>
Alstom	\$59,950	16-20 wks ARO
ABB	\$76,600	20-22 wks ARO

The project estimate had an estimated cost for the circuit breaker at \$70,000.

The bid review evaluated price, delivery and compliance to the specification.

Compliance to the Specification

Alstom can meet the specified temperature range identified in the specification, -40 deg C to +50 deg C, where ABB states that their breaker is rated for a -30 deg C to +50 deg C range.

Alstom can meet the specified CT specifications, C800 0.3B1.8 with a TRF of 2.0, and ABB quoted that they would supply CTs that were C800 0.3B2.0 with a TRF 2.5. The existing breaker CTs at Caron Road are all rated at C800 0.3B1.8 with a TRF of 2.0. Additionally, Alstom purchased Areva and is quoting the same breaker design as the initial Caron Road Substation Project.

Alstom and ABB are quoting a warranty period of 12 months from initial operation with a not to exceed of 18 months from shipment. Both bidders require full payment within 30 days of material delivery.

Terms and Conditions:

All of the bidders provided minor comments to the RMU's General Conditions for Equipment and Material Purchases (Form 201AE-04-18-05) and the Special Conditions information. These comments will be resolved during contract negotiations.

Recommendation:

In summary, Alstom was found to be technically acceptable and there are minor comments to the terms and conditions requiring closure during contract negotiation.

For the bid evaluation, it is our recommendation that Alstom be awarded the contract in the amount of \$59,950.

If you have any questions or want to discuss this matter, please call Michelle Hack at (312) 269-6950 or Zafar Ashrafi at (312) 269-3565.

Yours Very Truly,



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