



ELECTRIC UTILITIES
Established 1902
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City of New Bern



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Three Centuries of North Carolina Heritage
Founded 1710

TO: City of New Bern Board of Aldermen
FROM: Jon Rynne, Director of Utilities *JR*
DATE: January 24, 2012
SUBJECT: Substation Engineering Services and Equipment Change Orders

Background Information:

As the design and construction of the Lewis Farm Road Substation has progressed, some revisions to the original design of the station have occurred. These changes have resulted in the need to amend the original contracts with the engineering service provider—Power Services, the substation package manufacturer—Peak Substation Services, and the circuit breaker manufacturer—ABB.

The first change order (A) is for the scope of services for the engineering consultant for the substation project—Power Services of Raleigh, North Carolina. In order to facilitate the process of financing of the substation, the City of New Bern had to receive approvals from Electricities and the Local Government Commission. The documentation required to satisfy these approvals was not included in the original scope of the Power Services contract. The original contract of \$128,000 was increased by \$30,000 to cover this additional work.

The second change order (B) is for the purchase of the substation package. This includes all the structure, switches, current and voltage transformers, as well as grounding equipment necessary for the construction of the substation. The manufacturer for this equipment is Peak Substation Services located in Birmingham, Alabama. Their bid was \$253,210. Due to design changes of the substation transformer pad and the protection scheme for the station, a cost increase of \$11,070 was necessary to purchase additional equipment.

The third change order (C) is for the purchase of the 27 kV main and feeder circuit breakers needed for the operation of the substation. These are used to control the distribution of power from the substation transformer and out onto the circuits leaving the substation. The manufacturer that met the specifications for this equipment was ABB, with a price of \$100,549. Two revisions to the manufacture of the breakers, necessary to properly operate within the design of the new substation, required a cost increase of \$3,101.

These change order amounts are within the budgeted cost for the Lewis Farm Road Substation project fund.

Recommendation:

As a result of the staff's evaluation, it is recommended that the Board of Aldermen approve the change orders A, B, and C to the Lewis Farm Road Substation project through the endorsement of the resolutions being presented.