

RESOLUTION NO. 2013-326

A RESOLUTION TO AMEND AND SUPPLEMENT RESOLUTION NO. 2012-480, AUTHORIZING ENGINEERING SERVICES TO INSTALL SELECTIVE CATALYTIC REDUCTION SYSTEM ON THE COMBUSTION TURBINE AT WEST SUBSTATION.

WHEREAS, the City Council of the City of Vineland, on December 11, 2012, adopted Resolution No. 2012-480, entitled "A RESOLUTION AUTHORIZING AN AGREEMENT FOR PROFESSIONAL SERVICES WITH BURNS AND ROE ENTERPRISES, INC., ORADELL, NJ, FOR ENGINEERING SERVICES TO INSTALL A SELECTIVE CATALYTIC REDUCTION SYSTEM ON THE COMBUSTION TURBINE AT WEST SUBSTATION"; and

WHEREAS, there exists a need to amend and supplement the Professional Services contract awarded to Burns and Roe Enterprises, Inc., Oradell, NJ, for Engineering Services to Install a Selective Catalytic Reduction System on the Combustion Turbine at West Substation as authorized by Resolution No. 2012-480; by change order to Contract No. C12-0082, due to the age of the combustion turbine, there are challenges and uncertainty associated with installing a Selective Catalytic Reduction System (SCR); it has been discovered that the existing 225 kVA auxiliary transformer at west substation does not have sufficient capacity to accommodate the addition of an SCR; said change order will provide for engineering services not included in the original scope of work as follows:

1. Replacing the existing 225 kVA auxiliary transformer with a 300 kVA transformer and installing a new 500 kVA transformer - \$33,829.00
2. Paving the area between New Peach Street and the fence forming the north side of west substation; and expansion of the turning radius of the driveway used by delivery trucks, based on the review and recommendation of the City's Engineering and Planning Divisions - \$34,259.00; and

WHEREAS, the City Comptroller has certified that funds for the amendment requested herein are available; now, therefore,

BE IT RESOLVED by the Council of the City of Vineland as follows:

1. THAT Resolution No. 2012-480, entitled "A RESOLUTION AUTHORIZING AN AGREEMENT FOR PROFESSIONAL SERVICES WITH BURNS AND ROE ENTERPRISES, INC., ORADELL, NJ, FOR ENGINEERING SERVICES TO INSTALL A SELECTIVE CATALYTIC REDUCTION SYSTEM ON THE COMBUSTION TURBINE AT WEST SUBSTATION"; be and the same is hereby amended and supplemented to increase maximum amounts as stated above.
2. THAT the Purchasing Agent be and the same is hereby authorized to issue an amendatory supplemental change order to Contract No. C12-0082, in the amounts as stated above.

Adopted:

President of Council

ATTEST:

City Clerk

July 16, 2013

REPORT

TO: THE MAYOR AND COUNCIL

RE: Amendatory Supplemental Change Order No. 1
Contract No. C12-0082
Install Selective Catalytic Reduction System on Combustion Turbine at West Substation
Burns and Roe Enterprises, Inc., Oradell, NJ

Dear Mayor and Member of Council:

We are requesting an amendatory supplemental change order to Contract No. C12-0082, issued to Burns and Roe Enterprises, Inc., Oradell, NJ for Engineering Services to Install a Selective Catalytic Reduction System on the Combustion Turbine at West Substation. This contract was authorized by Resolution No. 2013-480, adopted by City Council on December 11, 2012.

Due to the age of the combustion turbine, there are challenges and uncertainty associated with installing a Selective Catalytic Reduction System (SCR). It has been discovered that the existing 225 kVA auxiliary transformer at west substation does not have sufficient capacity to accommodate the addition of an SCR.

The change order requested will provide for engineering services not included in the original scope of work as follows:

1. Replacing the existing 225 kVA auxiliary transformer with a 300 kVA transformer and installing a new 500 kVA transformer - \$33,829.00
2. Paving the area between New Peach Street and the fence forming the north side of west substation; and expansion of the turning radius of the driveway used by delivery trucks, based on the review and recommendation of the City's Engineering and Planning Divisions - \$34,259.00.

This change order will increase the original contract amount from \$803,000.00 to \$871,088.00.

The amendatory supplemental change order for which authorization is herein requested may be authorized in accordance with N.J.A.C. 5:34-4.1 et seq.

Sincerely,

Denise Monaco
Assistant Business Administrator

DM/wr

CITY OF VINELAND

July 16, 2013

CERTIFICATION OF AVAILABILITY OF FUNDS

We, the undersigned officials of the City of Vineland, do hereby certify, to the best of our knowledge and belief that there now exists adequate funds to issue an Amendatory Supplemental Change Order No. 1 to Contract No. C12-0082, issued to Burns and Roe Enterprises, Inc., Oradell, NJ for Engineering Services to Install a Selective Catalytic Reduction System on the Combustion Turbine at West Substation. The change order requested will provide for engineering services not included in the original scope of work as follows:

1. Replacing the existing 225 kVA auxiliary transformer with a 300 kVA transformer and installing a new 500 kVA transformer - \$33,829.00

2. Paving the area between New Peach Street and the fence forming the north side of west substation; and expansion of the turning radius of the driveway used by delivery trucks, based on the review and recommendation of the City's Engineering and Planning Divisions - \$34,259.00.

Such funds for said amendment are available under appropriations established by Ordinance No. 2012-36.

Roxanne Tosto
City Comptroller

Susan Baldosaro
Principal Accountant

Joseph Isabella
Director of Municipal Utilities

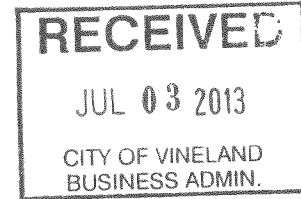
Account No(s): 022-0-00-00-0000-2-7511500 E940Y

Check one & initial

Encumber

Supplement

Change Order Request



To: Denise Monaco

Business Administrator

From: Joseph Colla

Principal Engineer

On December 12, 2012 after completing a public bidding process VMEU entered into a contract with Burns and Roe for engineering services leading to the installation of a selective catalytic reduction unit on the combustion turbine at west substation. The SCR is needed to reduce nitrogen oxide emissions in order to be in compliance with a New Jersey Department of Environmental Protection regulation that goes into effect on May 1, 2015. The expected cost of the project is \$6,000,000. The amount of the contract with Burns and Roe is \$803,000 based on a specific work scope that was included in the request for proposal and became the basis of the contract.

The combustion turbine at west substation has been in service for 41 years. While VMEU has done a very good job maintaining this generating unit, there are challenges and uncertainty associated with installing an SCR on a forty year old combustion turbine that we did not experience when an SCR was installed on the recently completed Unit 11. For example the condition of some of the internal components of the exhaust system and the extent they will need to be refurbished in order to install an SCR are not known.

The project has gotten off to a good start. Early last month NJDEP issued preconstruction approval for the project.

To date 60% of the project design has been completed. The project was reviewed with members of the city's engineering and planning departments. They informed us that the area between New Peach Street and the fence forming the north side of west substation will need to be paved. Engineering services required to execute this task are not included in the workscope which formed the basis of the contract with Burns and Roe.

During the development of 60% of the project design, it was discovered that the existing 225 kVA auxiliary transformer at west substation does not have sufficient capacity to accommodate the addition of an SCR. This transformer will need to be replaced. Engineering services required to execute this task are not included in the workscope of the contract with Burns and Roe.

Burns and Roe has provided the attached project change notices that include a detailed description of the additional work, a list of the required man-hours, and an estimate of the expected costs for engineering services for these two out of scope tasks. The expected costs for engineering services are \$34,259 and \$33,829 for paving the area between New Peach Street and the fence forming the north side of west substation and replacing the auxiliary transformer respectively. Approval of these change orders is recommended.

Joseph L. Colla

Approval

Gus Foster

Gus Foster, Chief Engineer

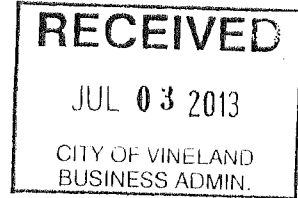
Robert A. Napier Sr. JI

Joseph Isabella General Manager Municipal Utilities

Robert A. Napier

Denise Monaco

Asst.
Denise Monaco Business Administrator



REQUEST FOR CHANGE ORDER

FOR:

Selective Catalytic Reduction System for West Substation Combustion Turbine

PROJECT NAME

TO: DENISE MONACO
(BUSINESS ADMINISTRATION)

FROM: Joseph Colla

This is a request for change order # 1 to Contract # C12-0082 for:

Project Name Selective Catalytic Reduction System for West Substation Combustion Turbine

Name/Address of

Contractor: Burns and Roe Enterprises, Inc. 800 Kinderkamack Road, Oradell, NJ 07649

The change order is necessary because: (use additional pages if necessary to explain your reason and you must attach documentation to support the necessity of this change order. (Documentation from contractor, engineer, etc.)

This change order is for engineering services associated with replacing the existing
225 kVA auxiliary transformer with a 300 kVA transformer and installing a new 500kVA transformer.

Amount of this change order: \$ 33,829

Original Contract Amount: \$ 803,000

Total Revised Amount: \$ 836,829

Provide the original contract amount, the amount of the change order and the revised contract amount.

NOTE:

CHANGE ORDERS CANNOT EXCEED 20% OF THE ORIGINAL CONTRACT AMOUNT

Please provide the account number that the change order will be charged to:

Account # 022-0-00-00-000-2-7511700

CC: Purchasing Division

Reo Town Plant

PCN COST ANALYSIS

PCN 001 - Addition of 500kVA Transformer

	<u>BREI HOURS</u>	<u>Rate</u>	<u>\$</u>
Engineering	123	\$180.00	22,140
Design	56	\$155.00	8,680
Project Manager	8	\$200.00	1,600
Project Controls	2	\$155.00	310
Administrative	2	\$65.00	130
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SUBTOTAL LABOR	191		32,860
OTHER DIRECT COSTS			969
PCN TOTAL			<u>\$33,829</u>

REQUEST FOR CHANGE ORDER

FOR:

Selective Catalytic Reduction System for West Substation Combustion Turbine

PROJECT NAME

TO: DENISE MONACO
(BUSINESS ADMINISTRATION)

FROM: Joseph Colla

This is a request for change order # ~~2~~ 1 to Contract # C12-0082 for:

Project Name Selective Catalytic Reduction System for West Substation Combustion Turbine

Name/Address of

Contractor: Burns and Roe Enterprises, Inc. 800 Kinderkamack Road, Oradell, NJ 07649

The change order is necessary because: (use additional pages if necessary to explain your reason and you must attach documentation to support the necessity of this change order. (Documentation from contractor, engineer, etc.)

This change order is for engineering services associated with the (1) paving of the area between New Peach Street

and the the fence forming the north side of west substation and (2) expansion of the turning radius of the

driveway used by delivery trucks. This change order is being initiated at the request of the city planning department.

Amount of this change order: \$ 34,259

Original Contract Amount: \$ 836,829

Total Revised Amount: \$ 871,088

Provide the original contract amount, the amount of the change order and the revised contract amount.

NOTE:

CHANGE ORDERS CANNOT EXCEED 20% OF THE ORIGINAL CONTRACT AMOUNT

Please provide the account number that the change order will be charged to:

Account # 022-0-00-00-000-2-7511700

CC: Purchasing Division

City of Vineland

PCN COST ANALYSIS

PCN 002 - New Paving Areas

	<u>BREI HOURS</u>	<u>Rate</u>	<u>\$</u>
Engineering	93	\$180.00	16,740
Design	88	\$155.00	13,640
Project Manager	10	\$200.00	2,000
Project Controls	4	\$155.00	620
Administrative	4	\$65.00	260
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SUBTOTAL LABOR	199		33,260
OTHER DIRECT COSTS			999
PCN TOTAL			<u>\$34,259</u>