CITY OF COFFEYVILLE
BOARD OF COMMISSIONERS AGENDA ITEM

MEETING DATE	July 14, 2015	
RESOLUTION OR ORDINANCE NUMBER	R-15-84	
AGENDA TITLE	**Electrical Engineering – 13.8 kV - 69 kV** **New Generation Interconnection**	
REQUESTING DEPARTMENT	Electric	
PRESENTER	Michael Shook, Deputy Director of Electric Utilities	
FISCAL INFORMATION	Cost as recommended:	$110,000.00 (Not To Exceed)
	Budget Line Item:	810-5-030-478
	Balance Available	
	New Appropriation Required:	[ ] Yes [X] No
PURPOSE	Secure services to provide electrical design, engineering, and construction management for the interconnection of 3 - 18.7 MW generating units to the sub-transmission system.	
BACKGROUND	Additional engineering services outside of the original scope of work with Burns & McDonnell is being required to facilitate the 13.8 kV to 69 kV interconnection. This additional out of scope work will include, but is not limited to, the design, procurement and construction management of steel structures and steel pole, foundations, electrical disconnect switches, and electrical protective relaying.	
SPECIAL NOTES	N/A	

ANALYSIS	This item has not been bid, as per the City procurement policy, as it is unlikely that another engineering firm would submit bids due to the fact the City has already secured the services of Burns & McDonnell as Engineers for the New Generation Project.
PUBLIC INFORMATION PROCESS	N/A
BOARD OR COMMISSION RECOMMENDATION	
STAFF RECOMMENDATION	Staff recommends that the Mayor be authorized to approve the Task Authorization for additional electrical design, engineering, and construction management services with Burns & McDonnell in the amount not to exceed $110,000 for New Generation 13.8 kV to 69 kV electrical interconnection.
REFERENCE DOCUMENTS ATTACHED	Burns & McDonnell Task Authorization #5

RESOLUTION NO. R-15-84

A RESOLUTION TO ENTER INTO A SERVICE AGREEMENT WITH BURNS & McDONNELL ENGINEERING FOR ELECTRICAL DESIGN, ENGINEERING, AND CONSTRUCTION MANAGEMENT SERVICES FOR THE 13.8 kV TO 69 kV INTERCONNECTION FOR THE CITY OF COFFEYVILLE ELECTRIC UTILITY.

BE IT RESOLVED by the Board of Commissioners of the City of Coffeyville, Kansas that the Mayor be and is hereby authorized to enter into a service agreement with Burns & McDonnell Engineering in the amount not to exceed $110,000.00 for electrical design, engineering, and construction management services for the 13.8 kV to 69 kV Interconnection for the City of Coffeyville Electric Utility.

ADOPTED THIS 14th DAY OF July, 2015.

_____
Christopher V. Williams, Mayor

ATTEST:

_____
Cindy Price, City Clerk

APPROVED AS TO FORM AND LEGALITY:

_____
Paul Kritz, City Attorney

TASK AUTHORIZATION #5
of
AGREEMENT BETWEEN OWNER AND ENGINEER
FOR PROFESSIONAL SERVICES

City of Coffeyville, Kansas 56MW Reciprocating Engine Power Plant
Owner: City of Coffeyville, Kansas
Engineer: Burns and McDonnell

THIS TASK AUTHORIZATION is made as of July 8, 2015 by and between City of Coffeyville, KS ("Owner") and Burns & McDonnell Engineering Company, Inc., a Missouri corporation ("Engineer"). This Task Authorization shall be considered a Change Order as defined by the Agreement between Owner and Engineer for Professional Services dated October 14, 2014.

Owner authorizes Engineer to proceed with the following:

SCOPE OF SERVICES

The Scope of Services will be providing engineering and design of the 69kV interconnection.

<u>Scope includes engineering support for:</u>

- Foundations: (1) Breaker Slab, (6) Drilled Shaft
- Steel Structures: (2) Switch Stands, (1) Bus Support, (1) H-Frame, (1) Engineered T-Line Pole
- 69kV Major Equipment: (1) Breaker, (2) Disconnect Switches, (3) PTs, (1) T-Line Pole Switch
- Relaying: (1) Line Distance Relaying, (1) Breaker Failure Relaying
- Procurement packages: Steel (detailed design & fabrication), Substation Packager
- Construction Packages: Above Grade Construction (69kV Yard & T-Line)

<u>Assumptions:</u>

1. Transmission Line Design:
    a. The new T-Line structure will include a three phase disconnect switch and distribution underbuild.
    b. T-Line Survey info will be provided by the Owner.
    c. No permitting will be needed for routing of new T-line or installation of new pole.
2. Physical/Civil Design:
    a. Engineer to design complete Above/Below grade package for 69kV equipment.
    b. Disconnect switches are not motor operated.
    c. Lightning protection will only be studied on the 69kV breaker and will not include the GSU.
    e. Site Survey, Soil Boring, & Resistivity Test info is available.
3. Relay/Protection:
    a. Line relaying to be distance.
        i. Line relays x 2 = North Industrial Park Sub 69 kV / South Industrial Park Sub 69 kV
    b. Breaker failure protection will be provided and will communicate over fiber.
        i. Fiber is available on the existing T-Line and will be spliced/routed into the Power Plant.
    c. Engineer to provide relay settings
    d. Metering will be done through SEL relays. No additional meters will be installed.
    e. All relaying equipment shall be in Power Plant building. No control building or panels will be in the 69kV yard.
    f. All AC/DC Power shall be provided by the Power Plant facilities.
4. Procurement:
    a. 69kV breaker procured by the Owner.
    b. Engineer to design loading diagrams & outline drawings for steel package.

c. 69kV below grade construction to be included in Power Plant below grade contract.
d. 69kV relay panels to be included in Power Plant building relaying contract.
e. A new construction contract will be required for the 69kV substation/t-line work.

TERMS AND CONDITIONS

The term and conditions defined by the AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFFESSIONAL SERVICES dated October 14, 2014 are incorporated by reference in and made a part of this Task Authorization.

COMPENSATION

Owner shall pay Engineer for Services set forth in this Task Authorization a Lump Sum amount of One Hundred Ten Thousand Dollars ($110,000). The Lump Sum includes compensation for Engineer's services and services of Engineer's Consultants, if any. Appropriate amounts have been incorporated in the Lump Sum to account for labor, overhead, profit, and expenses.

For services provided to Owner by Engineer that is not defined in this Task Authorization or in a lump sum defined by additional Task Authorizations and is approved by Owner, Owner shall pay Engineer an amount equal to the cumulative hours charged in connection with the task by each class of Engineer's employees times the Professional Service Billing Rates for each applicable billing class, plus Reimbursable Expenses. The Professional Service Billing Rates are set forth in Task Authorization #1, which will be adjusted annually.

TASK AUTHORIZATION #5
July 8, 2015

IN WITNESS WHEREOF, Owner, by and through its authorized representatives and Engineer, by and through its authorized representatives, have made and executed this Agreement as of the day and year first above written:

Owner City of Coffeyville, Kansas	Engineer Burns & McDonnell Engineering Company, Inc.
_____	_____
Signature	Signature
_____	_____
Printed Name	Printed Name
Title:_____	Title: _____
Date:_____	Date: _____