



ADDENDUM 2
City of Newport News
IFB#2011-3384-2005

December 16, 2010

Purchasing Department, Office of the Purchasing Director
4th Floor, City Hall, 2400 Washington Avenue
Newport News, VA 23607

Phone: (757) 926-8031/ Fax: (757) 926-8038

<http://www.nngov.com/purchasing>

NEWPORT NEWS LIGHTING UPGRADE

Sealed bids subject to the conditions and instructions contained herein, will be received at the above office of the Purchasing Director, 4th Floor, City Hall, 2400 Washington Avenue, Newport News, Virginia 23607, until the time and date shown below (local prevailing time), for furnishing the items or services described in the bid.

It is agreed and understood this page and the following pages will constitute addendum 2, and shall be made part of the IFB document. Acknowledgement, showing receipt and acceptance of the changes is to be returned in the manner specified.

This published addendum lists questions, answers and clarification.

Bid Due: 3:00 p.m., December 21, 2010

Shari D. Colvin

Contract Officer: _____

Shari D. Colvin, CPPB, Deputy Director, scolvin@nngov.com

Company Name: _____

Address: _____

City/State/Zip: _____

Telephone: _____ FAX No.: _____

E-mail: _____

Print Name: _____ Title: _____

Signature: _____ Date: _____

This form must be signed. All signatures must be original and not photocopies.

1. In review of the named manufacturer and catalog designation there appears to be conflicts with the specified performance characteristics listed for Group 1 Bid Item 2A, 2B, and 2C.

A. The catalog nomenclature of “PGL5” is listed in the manufactures literature as being “Glass Globe with Type 5 distribution “. Does this mean that the Photometric Distribution stating “the lens of the globe to be refractive acrylic” is no longer being considered or accepted?

No, refractive acrylic is required.

2. Are Post Top internal Retro Fit kits allowed?

No they are not permitted.

3. Under “Lighting Characteristics” is it required that LM79 be performed by the same luminaire manufacturer on the exact model being submitted?

Scaled IES files will be permitted.

4. Are “inner reflectors” used for indirect lighting acceptable in lieu of prismatic acrylic refractor globes with direct lighting?

Inner reflectors are permitted but must not be seen through the refractive globe.

5. Under Lighting Characteristics, the LED efficacy has been reduced from 65 lumens per watt to 50 lumens per watt producing a 30% lumen decrease resulting in reduced footcandle levels and increased non uniformity on public roadways. How will 65 lumens per watt providing higher footcandles and superior uniformity be weighted in the “quality of the lowest responsive bid” in the best interest of the city?

Initial luminaire efficacy shall be **no less than 50 lumens output per input watt. It is preferred that it be higher but not required.**

6. In Photometric Distribution, the luminaire distribution classification is listed as Type V which produces a lighting pattern of reduced illumination and increased non uniformity when replacing IES Roadway Type II internal refractor luminaries on an existing engineered lighting system. How will an LED Type III system providing for higher illumination levels and superior uniformity when installed on an existing engineered roadway lighting system be weighted in the “quality of the lowest responsive bid in the best interest of the city?

Type V distribution is required as stated in the IFB.

7. Under General Construction it is stated “ the globe shall not contain cage or metal roof” and under Photometric Distribution it is stated “ the roof to be reflective acrylic” and goes on to state Uplight shall be limited to U0 to U2. The daytime architectural appearance of the Acorn requires the night time performance be similar and the requirement of U0-U2 changes this “classic” style to appear as a utility grade post top and preempts the architectural night time characteristics. Should a “metal roof” be included to meet the U0-U2 requirement?

A metal roof will be permitted but must not be seen from the outside.

8. Under Lighting Characteristics, the LED efficacy has been reduced from 65 lumens per watt to 50 lumens per watt producing a 30% lumen decrease resulting in reduced footcandle levels and increased non uniformity on public roadways. How will 65 lumens per watt providing higher footcandles and superior uniformity be weighted in the “quality of the lowest responsive bid” in the best interest of the city?

Initial luminaire efficacy shall be no less than 50 lumens output per input watt. It is preferred that it be higher but not required.

9. In Photometric Distribution, the luminaire distribution classification is listed as Type V which produces a lighting pattern of reduced illumination and increased non uniformity when replacing IES Roadway Type II internal refractor luminaires on an existing engineered lighting system. How will an LED Type III system providing for higher illumination levels and superior uniformity when installed on an existing engineered roadway lighting system be weighted in the “quality of the lowest responsive bid in the best interest of the city?”

Type V distribution is required as stated in the RFP.

10. On Exceptions Page, it is stated “Payment terms shall be considered in determining the low bidder”. How will a bid offering 60 month financing be weighted, along with increased lamp efficacy and increased luminaire efficiency?

60 Month financing will not be permitted. Once product is received the City will pay for items invoiced.

11. Listing of a single lighting fixture catalog number becomes proprietary when compared to listing 2 or 3 manufacturer’s catalog numbers, allowing for competitive increased value added owner benefits. How will non specified, owner’s value added benefits such as luminaire’s efficacy, efficiency and single source responsibility be evaluated?

A product that is being submitted as an exception must be comparable to the product listed. If it is equal with all aspects and falls within the acceptable ranges it will be considered.

Bid Item No . 1 Questions

LED Luminaire: Cobrahead

General:

In order to allow for a consideration of an equal or better LED fixture the full part number or numbers should be disclosed not just a wattage range IE: BLD-STR-LWY-2M-HT-C-UL is missing the number of LEDs per fixture. If you go by the specification sheets from the proposed fixture manufacturer there could be two different fixtures with a different number of LEDs falling between the 70 to 100 watt ranges as specified. With there being several LED Optical technology's out in the industry which produce light on the target areas. It would only be fair to provide the locations where the cobraheads will be installed and the IES RP-8 Roadway Classifications you are looking to achieve for each location.

12. Will the City of Newport News provide the following information for this portion of the bid?
 1. IES RP-8 Road and Area Classification and Pavement Classification for each site being upgraded
 2. Will you use all three main categories used in meeting these standards: Average Luminance, Uniformity Ratio L_{avg}/L_{min} , STV (Small Target Value)?
 3. What Light Loss Factor will you be using when you run the IES Photometric files?

Road Type is R3, STV is not used given the City's urban application of fixtures, LS Factor 0.87.

13. Will the City of Newport News provide the valid part numbers of the fixtures specified in the Bid?

Please see the link below:

<http://www.betalcd.com/RuudBetaLed/media/RuudBetaLedMediaLibrary/PDF%20Files/US%20Spec%20Sheets/STR/led-streetlight-2m-ht-04-06.pdf>

The specified LED Cobrahead manufacturers uses Scales IES files for many of its fixtures which means they do not test every fixture configuration with accredited photometric testing laboratories, but rather test one or two in a configuration and then

extrapolate data for what they think the performance would be for the other fixtures in the similar configurations with higher or lower LED counts.

14. Will the City of Newport News allow for Scaled IES files?

Yes.

Electrical:

Luminaire Wattage between 70 to 100 watts.

15. Is the City of Newport News willing to except fixtures which run at lower wattage than specified LED Cobrahead if they are equal or better in lighting performance?

This requirement is specified in the bid document, however bidders can submit their desired products with the details in the "Exception" page in the bid document.

LED Driver shall drive led's at 500mA to 550mA. Most of the leading LED Fixture manufacturers, beside the specified in this bid, run at a more Energy Efficient and LED Life extending 350mA.

16. If a fixture manufacturer can provide equal to or better Foot-candle performance on the target surface running at reduced Energy consumption; will the City of Newport News allow for the lower LED drive current of 350mA?

This requirement is specified in the bid document, however bidders can submit their desired products with the details in the "Exception" page in the bid document.

Lighting Characteristics:

Correlated Color Temperature of LED Array: In the *original* IFB you all had a Correlated Color Temperature Range (CCT) of 4000 to 5000 degrees Kelvin. It seems now the range has been increased to 4500 to 6000 to allow for optimal performance of your now specified fixture which had an optional light source of 4300 Kelvin. There are "No" natural night sources of light that has this cool blue light temperature IE example: Natural Moonlight is Kelvin Temperature 4100 Kelvin. Neither are the most commonly used exterior nighttime lighting sources; Clear Metal Halide (4200 Kelvin)/High Pressure Sodium (2700 Kelvin). The City of Newport News seems to be worried about Dark Sky requirements and environmental concerns/effects of light; which by going to higher Kelvin temperature could have an adverse effect on bird and animal life. Also the CCT tolerance of a fixture dramatically increases the higher the Kelvin Temperature LED light source. For instance a 4000 Kelvin Temperature LED fixture has a color shift tolerance of +/- 275 Kelvin; which the human eye has a hard time seeing.

Where as a 6000 Kelvin Temperature LED light source can be off by as much as +/- 400 Kelvin and still be in tolerance; which can be recognized by the human eye. The higher Kelvin Temperature light tolerances of the currently specified LED manufacturer could look very similar to the color shifts you see in metal halide fixtures.

17. Has the City of Newport News reviewed the IES CCT tolerances for the specified Kelvin Temperature LED light sources and found the possible color shifts to be acceptable?

This factor is not being reviewed.

18. Would the City of Newport News allow for lower Kelvin temperature light sources that better blend in with natural moonlight and existing outdoor light sources in the 4000 Kelvin Range?

This requirement is specified in the bid document; however bidders can submit their desired products with the details in the "Exception" page in the bid document.

Bid Item No . 2A, 2B, 2C Questions

LED Luminaire: Post Top – Group 1

Post top Group 1 fixture: It was stated it was in a shop drawing by the manufacturer's representative at the pre-bid meeting and cannot be found on the Beacon website as one of their currently produced LED fixtures. In order to provide an equal or better performing fixture it would be helpful to know the orientation of the light source in the currently specified Acorn fixture.

19. Will the City of Newport News provide a detailed shop drawing showing the orientation of the light source for the specified fixture?

Bidders have freedom to select the orientation of light provided that the fixture meets the IES upright restriction under BUG rating and fixture has distribution Type V.

20. Will the City of Newport News provide detailed locations, for site review, of where these fixtures will be installed?

Please see addendum # 1.

LED Luminaire: Post Top – Group 2

21. Will the City of Newport News provide detailed locations, for site review, of where these fixtures will be installed?

Please see addendum # 1.

General Questions:

22. Will the City of Newport News provide detailed slip fitter mounting sizes and any specifications for each fixture specified?

Please see page # B-4 in the bid document.

In reviewing the addendum. Below, I do not see that the TOTAL # of lumens required to be output by the cobra head luminaire is stated.

In the pages B-1 and B-2 in the bid document, wattage range is given as 70W to 100W and the minimum initial lumen is required be no less than 55 lumen per input wattage. For example, if Bidder A elects to submit a 100W fixture, the initial lumen shall be no less than 5500lumen.

Have you considered retrofitting the existing lights with LED ?

Specific requirements are detailed in the bid document; however bidders can submit their desired products with the details in the “Exception” page in the bid document.