

Request for Bids for Far UVC Light Services (RFB #2020-010)

Vendor Questions & Answers

****For the yellow highlighted questions below, please refer to the original Request For Bids. No further information will be provided at this time.****

Senior Center and School Entrances:

1. Please provide architectural and electrical reflected ceiling plans for each location so that we may ascertain the following:
 - a. The quantity of entrances in each building,
 - b. Definition of entrance, marked in dimensions from door to where the entrance ends.
 - c. Types/formats of existing lighting fixtures: i.e., 2x2, 2x4 lay-in troffers, downlights, pendants, etc.
 - d. Ceiling type: hard ceiling (drywall) or tile.
 - e. Up to date electrical circuiting and power type (120V, 277V, emergency power via generator or battery)
2. Please provide electrical panel schedules so that we may ascertain the following:
 - f. Voltage of circuits
 - g. Total connected load of each branch circuit feeding each entrance
 - h. Type of power – normal, emergency (battery or generator)
3. Please provide schedules of operation for the lighting in these areas, for each building location:
 - i. Are the lights on a schedule or do they operate 24/7?
 - j. Are any of the lighting circuits in defined areas controlled via occupancy sensors, manual switches or time clocks? If so please indicate which ones.

School Buses, Senior Buses, Public Transit Buses:

1. What is the interior length and width of each bus, by bus type?
2. What is the ceiling height of each bus, by bus type?
3. How many seats are in each bus, by bus type?
4. Are occupants allowed to stand on any of the buses? If so, please designate which buses allow standing.
5. Switching – do these fixtures need to be switched to the ignition, or will require a separate switch?
 1. Will dashboard switching be required?
6. What power supply is available on the buses?
 - a. Do the buses have invertors installed that can supply 120V power

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- b. Per above, if not, shall vendor/installer furnish and install invertors?
 - c. Do the buses have auxiliary power outlets to plug into constant power source after hours such that the disinfecting UVC lighting will continue operation after hours?
 - d. Per above, if not, shall vendor/installer furnish and install auxiliary power outlets?
6. Is the maintenance of all buses provided by a government (state or county) supervised shop? Or is it outsourced?
- d. Who are contacts for handling maintenance?
 - e. Who would determine availability of access to buses so work can be done and what are those days and hours?
 - f. How many buses per day can be scheduled as out of service so that installation work may occur?
 - g. Will all buses be located at a central location, or will we need to access each bus at various remote locations?
 - h. Will maintenance be providing approval on acceptable mounting hardware

General Questions Regarding Bid Document:

1. Bid document states: "Santee-Lynches reserves the right to retain ten percent of all reimbursements until a final audit has been satisfactorily completed"
 - a. What are the standards by which "satisfactorily completed" are compared?

Units are installed and operate correctly. This includes the proper wiring of vehicles and structures as well as testing and recording of UV dosage.
 - b. Who is defining the standards and who is responsible for verification?

Santee-Lynches Regional Council of Governments
 - c. How long after completion of installation will this audit be undertaken?

At commencement of work for each individual location or vehicle an audit will be performed.
2. UL Requirements: UL has specific electrical and safety requirements defined for UVC lighting in architectural indoor and outdoor spaces, but none for transportation. Is it the intent of this project that UL listings shall not be required?

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The technology sought would not fall under UL basic requirements because they are low voltage

3. Have you defined any UV dosage requirements and or disinfection requirements over time?

Dosage and disinfection requirements are based on the beta-HCoV-OC43 results, continuous far-UVC exposure in occupied public locations at the current regulatory exposure limit (~3 mJ/cm²/hour) would result in ~90% viral inactivation in ~8minutes, 95% in ~11minutes, 99% in ~16minutes and 99.9% inactivation in ~25minutes.

4. Will we be permitted to view the various bus styles prior to submitting the bid?

No

5. What are expectations regarding “on-going support”?

d. 24/7, 365 onsite service?

e. Maintenance and or replacement of UV lamp source?

“On-going support” would consist of trouble shooting issues with installed units and/or correction and replacement of non-functioning or faulty units. On-going support will consist of on-site repairs during non-operating hours and or technical assistance with any issue not directly stated.

1. Have not had a performance or payment bond in the past. What is the dollar amount I need to request for each of these?

These numbers will be based upon final negotiated contract price.