



GOVERNMENT OF THE DISTRICT OF COLUMBIA
Mayor Muriel Bowser

Office of Public-Private Partnerships



Streetlight Advisory Panel Meeting

John A. Wilson Building, Room G-9
Tuesday, December 8, 2019
4:30 – 6:00 PM

Attendees: Sharon Turner (chair), Amanda Young (vice chair), Delores Bushong, Kathleen Cromley, Chyla Evans, Greg Leinweber, Duilio Passariello, Laura Phinizy, David Searles, Kathryn Roos (OP3), Trevor Langan (OP3), and DeVon Smith (DDOT)

Notes

- I. Brief Project Update (Staff)
 - a. Because of staffing changes in OP3, we have had to redo parts of the reevaluation. We anticipate releasing the shortlist in Q1 of 2019.
 - i. This project is currently at 50% of full staffing.
- II. Panel Presentation (Staff)
 - a. Newest AASHTO standards
 - i. AASHTO published a new roadway lighting design guide in 2018—the last update was in 2005.
 - ii. The guidelines we follow are for R2 and R3 road types.
 - iii. The standards haven't changed.
 1. Q: Why are our alleys R2/R3 if they are much lighter in color?
 - a. A: That is what our engineers have told us. We can check on the specifics of our road material mixes.
 - b. Streetlight evaluation forms
 - i. We picked prototypical streets to test 2700K fixtures from different manufacturers.
 - ii. DDOT takes multiple readings and averages them to determine scores for illumination. The fixtures are also rated for qualitative specifications, such as uniformity and glare.
 - iii. Some fixtures performed adequately while others failed for poor illumination, glare control, or some other reason.
 1. Q: Do the rejected fixtures get banned in the RFP?
 - a. A: Each time we do an evaluation, we reach out to the manufacturer. Some are willing to work with DDOT to improve, others are not. During the design process, we will go through this process for every fixture. The developer may have a better chance working with manufacturers to rectify issues.



2. Q: When in the process do you evaluate the fixtures? Before the bid?
 - a. It is after the bid. The bid is firm, and so the developer takes on the risk.
 3. Q: How long is the warranty?
 - a. A: The typically warranty is 10 years.
 4. Q: What is the spacing of the poles? That can affect the performance based on the design of the fixture.
 - a. A: Understood. The reading is taken at the most ideal position.
 5. Q: Do you use a variety of meters to take readings?
 - a. A: We only use meters on the ground.
 6. Q: I notice some of the fixtures fail for some categories while others are approved while failing a category.
 - a. A: Those that failed had much worse scores.
 7. Q: I notice that some residential tests for both HPS and LED fixtures greatly exceed the minimums from AASHTO.
 - a. A: First, the dimming capabilities will allow us to adjust. Second, we are looking to achieve balance across the District and among communities.
- c. Streetlight service requests
- i. We parsed through the service request data to answer requests from the group to understand the relative frequencies.
 1. We received (2016-2018) a significantly larger number of requests to fix lights out or dim lights.
 - ii. We also received nearly 1,600 requests for tree trimming to improve light levels.
 1. Q: Where do the levels for brightness start before a dimming regime is put in place?
 - a. A: This is the level of granularity that will happen during the design process, after a preferred bidder is selected. Because we can't evaluate every block, we anticipate creating typical lighting displays.
 2. Q: Has there been any thought given to hiring an independent lighting designers?
 - a. A: We have a staff with decades of experience as well as access to lighting designers. But we also aren't viewing the vendor antagonistically—they are a partner.
 3. Q: Are we starting with AASHTO standards or a like-to-like replacement?



- a. We are focusing on AASHTO standards to make sure we are reaching minimum safety standards and uniformity.
 - d. Public meeting feedback
 - i. Most frequent questions/comments
 - 1. Illuminance levels
 - 2. Color temperature
 - 3. Safety
 - 4. Light pollution and trespass
 - a. Q: While Vision Zero is important, what relationship is there between traffic safety and lighting? I haven't seen any writing about that.
 - i. DDOT analyzes lighting levels after pedestrian deaths. We can pull studies on lighting and pedestrian safety.
- III. Panel Discussion on February Agenda Items
 - a. The following items were suggested by OP3:
 - i. Presentation from MPD
 - ii. Visit to the Naval Observatory
 - iii. Presentations from NCPC and/or CFA
 - b. The following were added by the panel:
 - i. Other cities' experiences
 - ii. Field evaluations (to include a study of glare)
 - c. The chair and vice chair will prioritize these to create a schedule.
- IV. Action Items
 - a. OP3 to reach out to the Naval Observatory, NCPC, and CFA about meetings in the coming months.
 - i. OP3 will request the Naval Observatory discuss sky glow.
 - b. OP3/DDOT will investigate the relationship between pedestrian safety and street lighting.
- V. Adjourn
 - a. The next meeting is scheduled for Tuesday, February 12, 4:30 – 6:00 PM, in JAWB Room G-9.
 - i. However, a tour of the Naval Observatory may require us to move the date and time.

