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August 17, 2017

Ms. Kathy Sokugawa, Acting Director
Department of Planning and Permitting
City and County of Honolulu
650 South King Street 7th Floor
Honolulu, Hawai'i 96813

Attention: Mr. Jeffrey Lee, Planner, Policy Planning Branch
Mr. Raymond Young, Planner, Community Planning Branch

Dear Ms. Sokugawa,

Supplemental Information: Exterior Lighting Plans
Special Use Permit (SUP) No. 2017/SUP-2(JL)
Honouliuli Wastewater Treatment Plant Secondary Treatment and Support Facilities
91-1000 Geiger Road, Ewa Beach; Tax Map Key (TMK) [1] 9-1-69: 003 (por.) and 004

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DEPT OF PLANNING
and PERMITTING
CITY & COUNTY OF HONOLULU

On behalf the City and County of Honolulu, Department of Environmental Services (ENV) and the Department of Design and Construction (DDC), we are providing the enclosed supplemental information regarding exterior lighting for the Honouliuli Wastewater Treatment Plant (WWTP) Secondary Treatment and Support Facilities' SUP application.

The Honouliuli WWTP's exterior lighting plan consists of the following existing and proposed fixtures and control schemes:

Existing Exterior Lighting Plan

The existing lighting plan includes an array of exterior fixtures and control schemes which have resulted from the many phases of construction and renovation (1975, 1995, 1997, and 2004) throughout the lifespan of the Honouliuli WWTP. The types of exterior light fixtures include stanchion mounted, wall mounted, and pole mounted fixtures. The types of existing control schemes include night timer, photocell, and manual control.

The following existing lighting plans and fixture specifications are enclosed:

- Honouliuli WWTP Unit 1 Increment 1 (August 5, 1975),
 - Indicates pole mounted lights for primary clarifier 1 and 2, and adjacent roads.
- Honouliuli WWTP Expansion Phase 1: Part A, As Built (March 31, 1995),
 - Indicates pole mounted lights for primary clarifier 3 and 4, and adjacent roads.
- Honouliuli WWTP Unit 1A – Secondary Treatment Facilities, As Built (January 1997), and
 - Indicates pole mounted lights for biotower 1 and 2, biotower pump station, and secondary clarifiers 1 and 2, and adjacent roads.
- Honouliuli WWTP New Solids Handling Facility (October 13, 2004)

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- Indicates pole mounted lights for anaerobic digesters 1, 2, and 3, and odor control system 1, stanchion mounted fixtures for anaerobic digester 1, 2, and 3, and wall mounted fixtures for the digester control building, and related roads.

Proposed Exterior Lighting Plan

The proposed exterior lighting plan will include stanchion mounted, wall mounted, and pole mounted fixtures. ENV is considering upgrading the exterior lighting control system to utilize SCADA for existing and proposed exterior lighting.

Stanchion Mounted Fixture

Approximately 24 stanchion mounted lights will be located around the rooftop perimeter and center of each secondary clarifier tank. During nighttime, four of the stanchion lights will remain on for security purposes and the remaining 20 will have a manual control scheme for maintenance or emergency use. The proposed stanchion mounted fixtures are shown in the Phase 1B Electrical Plans, Sheet E374. The stanchion mounted fixtures will be Hubbell LED V Vaportite or similar. The product sheet for the Hubbell LED V Vaportite is attached.

Wall Mounted Fixture

Wall mounted fixtures will be located on the exterior of buildings by access doors. They will remain on from dusk to dawn. The proposed wall mounted fixture is shown in the Phase 1B Electrical Plans, Sheet E93, Detail B and BE. Wall mounted exterior lights will be GE Evolve LED fixtures or similar. The product sheet for the GE Evolve fixture is attached.

Pole Mounted Fixtures

Pole mounted fixtures will be located along the roadways. From dusk to dawn, the lights will operate at 50% power and 100% power when activated by motion sensor. The proposed pole mounted fixture is shown in the Phase 1B Electrical Plans, Sheet E92. Pole mounted fixtures will be Kim Lighting EKG401 fixtures. The product sheet for the Kim Lighting EKG401 fixture is attached.

The following proposed lighting plans and fixture specifications are enclosed:

- Proposed Honouliuli WWTP Secondary Treatment Phase 1A – Sludge Drying and Related Facilities
- Proposed Honouliuli WWTP Secondary Treatment Phase 1B – Secondary Compliance Facilities
- Proposed Honouliuli Wastewater Treatment Plant – Upgrade Phase 2
- Hubbell LED V Series Vaportite Product Sheet
- GE Evolve LED Product Sheet
- Kim Lighting EKG401 Shoebox Luminaire Product Sheet


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Should there be any questions regarding this submittal, please contact the undersigned at 842-1133.

Very truly yours,



James Niermann, AICP, LEED AP
Planning Project Coordinator

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cc: Raj Rath, P.E., DDC
Jaime Nishikawa, P.E., RMTC