**LED Campus – Funding Request for LED Exit Signs**

F&S 1/11/2017

**Signed University Commitments:** LED Campus commitment announced by Chancellor Wise in 2012. 2015 iCAP document approved by Interim Chancellor Wilson in October 2016 includes the LED Campus in objective 2.3.

**Requested Funding:** $75,000 for LED Exit Sign lighting replacement, additions, and new building surveys (see page 3 for list of buildings).

**Background:**  In October 2012 to honor Professor Nick Holonyak Jr., the inventor of LED, the University of Illinois at Urbana-Champaign made a commitment to replace all the interior and exterior wayfinding fixtures by 2025, and majority of all lights on campus to LED by 2050. The campus has been making progress to fulfill this vision over the past few years.

In November 2013, Dr. John (Jack) G. Dempsey, Associate Director of Sustainable Infrastructure, Center for Sustainable Environment, reiterated the commitment and stated that interior wayfinding fixtures primarily mean the Exit Signs within the buildings that need to be replaced with LEDs. He explained in his briefing that they had hoped that the Revolving Loan Fund (RLF) could be used to implement another phase of the LED Exit Sign project. Even though LED Exit Signs are a good investment, the project cannot be funded by the RLF because the payback period from energy reduction is well over ten years. The primary savings are from reduced maintenance costs. He also stated that he talked with Mike Andrechak, and the provost office would provide funding of $100,000 per year for the next five years to replace Exit Signs with LED lights (original proposal). However, following Jack’s briefing, Mike responded that he wasn’t clear about the funding commitment and advised that they start with a two-year commitment and then review.

In October 2015, Kenneth C. Buenting, Assistant Superintendent Building Maintenance, Facilities & Services, inquired about the funding status of this project for the following year. Morgan Johnston, Associate Director of F&S, and Curt Taylor, Director of Shared Administrative Services for F&S, met on October 23, 2015, to discuss the status of the funding request for this project. The funding request would include the original proposal, accomplishments to date from the original $200K, and the projected cost for completion. Kenneth Buenting updated the status and work done in the FY14 and FY15, where $100,000/year in funding was provided for LED Exit Sign replacement projects. Projected cost to complete campus should average around $198 per fixture, and the remaining buildings to complete will need to be surveyed for replacement/additions to meet compliance.

Over the two-year period 20 buildings were completed, with 1,053 LED Exit Signs replaced/added (see page 2). In October 2016, Curt Taylor contacted Vicky Gress about possible campus funding for the next round of LED Exit Signs. He informed Kenneth that Vicky is willing to consider funding but requested a summary of the original proposal, accomplishments resulting from the $200K funding received, and a project plan including estimated timelines and cost projections.

Total cost for FY14 & FY15 = $207,942.22, with an average of $197.50/fixture for labor and material.

Kenneth and his team have identified 20 buildings that are ready for LED Exit Sign replacements. Part of the project preliminary set up is working with Craig Grant and Ryan Wild to identify additional fixtures needed for egress and code compliance. This has been completed and each building in the current round has been surveyed (see page 4).

**Action Needed:** Approve funding for $75,000 for the 20 buildings listed on page 4 and survey 50 additional buildings.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ROUND ONE****Bldg. Name** |  | **Bldg. Number**  | **# of LED Exit Signs** | **# of battery back-up exit signs** | **Number of AC only exit signs** | **Date of work Completed** |
| Grainger Library | replacement | 224 | 42 | 0 | 42 | 3/4/2014 |
| Animal Science | replacement | 165 | 46 | 46 | 0 | 3/7/2014 |
| Roger Adams Lab | replacement | 116 | 61 | 61 | 0 | 3/10/2014 |
| Engineering Science | replacement | 174 | 37 | 0 | 37 | 3/10/2014 |
| Turner  | replacement | 197 | 51 | 51 | 0 | 3/24/2014 |
| Turner (stairs) | new | 197 | 27 | 27 | 0 | 4/13/2014 |
| ESB (adds) | new | 174 | 1 | 1 | 0 | 5/8/2014 |
| Animal Science (adds) | new | 165 | 16 | 16 | 0 | 5/16/2014 |
| Turner (adds) | new | 197 | 3 | 3 | 0 | 5/19/2014 |
| RAL (adds) | new | 116 | 8 | 8 | 0 | 5/28/2014 |
|  Main Library | replacement | 41 | 100 | 41 | 59 | 5/30/2014 |
| Chem-Life | replacement | 70 | 98 | 0 | 98 | 6/6/2014 |
| **FY14** | **490** | **254** | **236** |   |
| Education Bld | replacement | 160 | 41 | 41 | 0 | 7/23/2014 |
| **FY15** | **41** | **41** | **0** |  |
| Total ROUND ONE | **531** | **295** | **236** |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ROUND TWO****Bldg. Name** | **Bldg. Number** | **Total LED Exit Signs** | **# OF EXIT LIGHTS REPLACED W/LED KIT** | **# OF BATTERY BACK-UP EXIT LIGHTS**  | **# OF AC ONLY EXIT LIGHTS** | **added Exit Lights** | **DATE BLD WAS COMPLETED** |
| NSRC | 124 | 53 | 0 | 52 | 0 | 1 | 1/15/2015 |
| Henry Administration | 46 | 56 | 0 | 43 | 0 | 13 | 2/4/2015 |
| PPSB | 198 | 30 | 0 | 22 | 0 | 8 | 2/18/2015 |
| Law Building | 156 | 92 | 58 | 2 | 15 | 17 | 3/30/2015 |
| Water Survey | 1104 | 61 | 0 | 7 | 51 | 3 | 4/14/2015 |
| Beckman | 228 | 126 | 117 | 0 | 6 | 3 | 4/23/2015 |
| Madigan Lab | 336 | 62 | 0 | 62 | 0 | 0 | 5/6/2015 |
| Burrill Hall | 138 | 16 | 0 | 0 | 16 | 0 | 5/8/2015 |
| ACB | 17 | 22 | 12 | 0 | 10 | 0 | 5/13/2015 |
| Public Safety | 323 | 25 | 0 | 0 | 22 | 3 | 5/29/2015 |
| ISTC | 206 | 37 | 21 | 0 | 16 | 0 | 6/20/2015 |
| MEL | 29 | 38 | 0 | 0 | 38 | 0 | 6/22/2015 |
|   |   |   |   |   |   |   |   |
| **FY15** |   |   |  |  |  |  |  |
|  Total ROUND TWO  | 208 | 188 | 174 | 48 | **522** |

***BUDGET request for Maintenance services Date: 1/11/2017***

To: Curt Taylor Office phone #:

From: Ken Buenting Office phone #:  **244-2638**

Building LED Exit lighting -replacements, additions, and building surveys

Based on your authorization, Facilities & Services Building Maintenance Dept. has proceeded to develop the following scope and budget for your review and approval.

*Scope of Work*: To upgrade campus facilities with LED Exit lighting

1. Remove and discard existing Incandescent Exit lights (20 buildings page 4)
2. Replace existing Exiting lighting with LED Exit lights-w/wo battery back- up (generator identified)
3. Add additional LED exit lighting as identified by fire code for emergency egress

 **Budget - Labor & Material- $70,000** (40 weeks to complete 20 blds)

*Scope of Work*: To survey additional campus buildings for exit light count.

1. Survey campus buildings (50) for Exit light total counts
2. Survey campus buildings(50) to identify additional exit lights needed for emergency egress
3. Survey campus buildings(50) to identify generator coverage

 **Budget $ 5,000** (5 weeks to complete 50 blds)

 **Total Budget $75,000**

**[ ]  Accept** - If this general scope of work and budget is sufficient to complete this request, and if you desire the work to be performed on **TIME & MATERIAL**, please provide an AiM account # and we will use this form as authorization to proceed.

**[ ]** If you desire a fixed cost estimate for this work request please check the box and provide an AiM account # which may be charged as we research and further develop your detailed scope of work in order to provide you with a **FIXED COST ESTIMATE.**

[ ]  Decline

Please accept or decline this proposal within 30 days.

 Authorization:

Department Authorization Date:

AiM Account #:

BANNER C-FOAPAL: C:\_\_\_ F:\_\_\_\_\_\_\_O:\_\_\_\_\_\_\_\_A:\_\_\_\_\_\_\_\_P:\_\_\_\_\_\_\_A:\_\_\_\_\_\_\_ L:\_\_\_\_\_\_\_

 E-mail completed form to: klsnyder@illinois.edu or ­ fax: 244-6391

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ROUND THREE - Proposed** |  |  |  |  | . |
| **Bldg. Name** | **Bldg. Number** | **Replace** | **Add** | **Existing LEDs** | **Generator?** |
| Davenport | 1 | 20 | 0 | 1 |  |
| Foellinger Auditorium | 7 | 5 | 1 | 51 |  |
| Agriculture Engineering Science Bldg. | 8 | 19 | 0 | 0 | YES |
| Ice Rink | 14 | 10 | 0 | 20 |  |
| Harker Hall | 25 | 13 | 0 | 0 |  |
| Architecture Bldg. | 50 | 0 | 0 | 18 |  |
| Huff Gym | 58 | 18 | 8 | 21 | YES |
| MRL | 66 | 45 | 4 | 0 | YES |
| Loomis Lab | 67 | 5 | 0 | 76 | YES |
| Institute of Government & Public Affairs | 74 | 0 | 0 | 11 |  |
| Computing Application Bldg. | 108 | 22 | 2 | 0 | YES |
| Nuclear Physics | 110 | 4 | 0 | 0 |  |
| Bevier Hall – the tunnel part has exit lights | 158 |  | 1 | 26 |  |
| Atmospheric Science Bldg. | 208 | 6 | 0 | 2 |  |
| Speech & Hearing CL | 209 | 15 | 1 | 8 | YES |
| Environmental Health & Safety Bldg. | 213 | 6 | 0 | 0 |  |
| Krannert Art Museum | 220 | 40 | 0 | 9 |  |
| Printing Services | 222 | 15 | 0 | 1 |  |
| Micro Nano | 237 | 35 | 1 | 51 | YES |
| Library Information Sciences | 331 | 13 | 0 | 23 |  |
| Police Training Institute | 358 | 20 | 0 | 1 |  |
| Natural Resource Study Annex | 321 | 14 | 0 | 3 | YES |
|  |  |  |  |  |  |
| **Totals** |  | **325** | **18** |  | . |