From:	Jeremy Keene
To:	"David Strohmaier"; Bryan von Lossberg; Ed Childers
Cc:	Grp. City Council and City Web Site; Clawson, Stephen; Lori Hart; Aaron Bowman
Subject:	RE: New LED streetlights
Date:	Monday, July 6, 2020 10:51:37 AM
Attachments:	Fairview HPS 2_red.JPG Fairview LED 2_red.JPG

Hi All,

Northwestern Energy worked collaboratively with us to meet the City's lighting ordinance and has provided lighting analysis showing how the new lights will comply. They have two demonstration areas installed now that will allow us to "ground-truth" the results. Attached are some before/after images. These show the dramatic improvement in light quality. We still need to verify that the lighting levels meet our standards to make sure we strike the right balance. We'll have more info soon that we can formally release to the public.

Best, jk

Jeremy Keene, PE
Public Works Director
City of Missoula
406-552-6353
keenej@ci.missoula.mt.us

From: David Strohmaier <dstrohmaier@missoulacounty.us>
Sent: Wednesday, July 1, 2020 2:18 PM
To: Bryan von Lossberg <BvonLossberg@ci.missoula.mt.us>; Ed Childers <ed.childers@charter.net>; Jeremy Keene <KeeneJ@ci.missoula.mt.us>
Cc: Grp. City Council and City Web Site <Council@ci.missoula.mt.us>
Subject: RE: New LED streetlights

Thanks for bringing this up, Ed. And, given our experience on the ground over the past decade, and with changes in technology, it might be worth blowing the dust off of the outdoor lighting ordinance and determining whether it needs any adjustments in the year 2020.

Best,

Dave

P.S. Ed, tell us what you really think. You would love to see more dancing turkeys on electronic signage across town?!

David Strohmaier
Missoula County Commissioner
406.529.5580 (c)

From: Bryan von Lossberg <BvonLossberg@ci.missoula.mt.us>
Sent: Wednesday, July 1, 2020 1:11 PM
To: Ed Childers <ed.childers@charter.net>; keenej@ci.missoula.mt.us
Cc: Grp. City Council and City Web Site <Council@ci.missoula.mt.us>; David Strohmaier <dstrohmaier@missoulacounty.us>
Subject: Re: New LED streetlights

Thank you, Ed. I'm looping in Jeremy Keene from Public Works. In short the NWE light replacements must be compliant with our dark skies ordinance. Jeremy could elaborate (though I believe he's gone on vacation for a bit).

Bryan von Lossberg
Alderman, Missoula City Council - Ward 1
City Council President
522 Howell St
Missoula, MT 59802
(406) 552-7806

On Jul 1, 2020, at 11:25 AM, Ed Childers <ed.childers@charter.net> wrote:

Hi, Council & Commissioner.
I haven't seen the LED streetlights yet, but I saw a complaint about them.
We have a "Dark Skies Ordinance" that should address the replacement lighting.
Commissioner Strohmaier was part of the working group that put the ordinance together. He might have some thoughts on the subject.

> 8.64.090 Non-conforming Commercial, Industrial, or Multi-Family Residential light fixtures.
> A. Street Light fixtures in Lighting Districts
> 1. All existing street lighting fixtures that are in violation of this ordinance are permitted as
> nonconforming street lighting without any time limit.
> 2. If a pole is replaced, both the pole and the pole mounted light fixture shall be compliant with
> the provisions of 8.64.100.
> 3. If a light fixture is replaced on an existing non-conforming pole, the replacement light fixture
> shall be compliant with 8.64.100.

Thanks.
---ed

Ed Childers
406-728-3751

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