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MEMO

TO: Alderwoman Sandy Weidner, Chairman, Public Works and Services Committee

FROM: Mark H. Yehlen, Commissioner of Public Works

DATE: April 5, 2013

SUBJECT: **Submission of WE Energies Street Light Management and City Owned Street Light Management Proposals**

Per Resolution 13-0080, I'm submitting the attached WE Energies Street Light Management and City Owned Street Light Management Proposals for consideration.

Implementation of the WE Energies Street Light Management Proposal as written will incur no capital costs and is required to realize a budgeted \$80,000 reduction in the 2013 Street Lighting Utilities Account (101.590.5510). Implementation of the City Owned Street Light Management Proposal will incur undetermined, unbudgeted capital costs to remove street lights, and provide undetermined savings in the 2013 Street Lighting Utilities Account (101.590.5510).

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WE Energies Street Light Management Proposal:

Purpose of Street Lights:

Street lights are intended to:

- Illuminate roadway features such as edge of pavement, intersections, sharp curves, dead ends
- Light obstructions such as median strips and bridge piers
- Provide pedestrian safety at street crossings.

Streetlights, however, are not the only means by which the presence of features and obstructions can be made known.

Streetlights are not intended to illuminate private property nor provide home security.

Proposed street light location/spacing guidelines:

Applicability: These guidelines will not be applied for streetlight and alley light removals in areas of the city that are designated as "recovering neighborhoods" by the Chief of Police. The Chief of Police will reevaluate "recovering neighborhood" designations every three years. If and when a designation is rescinded, these guidelines will be used to identify lights for removal in the appropriate areas.

Arterial and collector streets

- Retain existing street light spacing

Street Lights, Local Streets

- **Geometric Criteria:**
 - Street light at each intersection, cul-de-sac or dead end
 - Street light at a curve in the roadway
 - Street light at change in street geometry or road hazard
- **Spacing Criteria for Sodium Vapor Lights (150 watt):**
 - No mid-block street lights on the "short side" of a block less than 400 feet long
 - One mid-block street lights for "long side" blocks from 400350 feet to 7699 feet long
 - Two mid-block street lights for blocks from 800700 feet to 1,1991,049 feet long, and so on
 - Spacing for lights other than 150 watt fixtures, evaluated on a case by case basis

WE Energies Street Light Management Proposal:

Alley Lights

- Typically 50 watt sodium vapor fixtures
- Street or alley light at each alley entrance
- Lights at alley intersections or dead ends
- One mid-block light for alleys from 300 feet to 549 feet long, two mid-block lights for alleys from 550 feet to 799 feet long, and so on

City Owned Street Light Management Proposal:

Purpose of Street Lights:

Street lights are intended to:

- Illuminate roadway features such as edge of pavement, intersections, sharp curves, dead ends
- Light obstructions such as median strips and bridge piers
- Provide pedestrian safety at street crossings.

Streetlights, however, are not the only means by which the presence of features and obstructions can be made known.

Streetlights are not intended to illuminate private property nor provide home security.

Proposed city owned street light guidelines:

Applicability: These guidelines will not be applied for street lights that were installed with any federal funds, LED street lights, street lights convertible to LED, and in areas of the city that are designated as “recovering neighborhoods” by the Chief of Police. The Chief of Police will reevaluate “recovering neighborhood” designations every three years. If and when a designation is rescinded, these guidelines will be used to identify lights for removal in the appropriate areas.

Arterial and collector streets

- Retain existing street light spacing

Street Lights, Local Streets

- **Geometric Criteria:**
 - Street light at each intersection, cul-de-sac or dead end
 - Street light at a curve in the roadway
 - Street light at change in street geometry or road hazard
- **Spacing Criteria for Sodium Vapor Lights (150 watt):**

No mid-block street lights on the “short side” of a block less than 400 feet long

 - One mid-block street light for “long side” blocks from 350 feet to 699 feet long
 - Two mid-block street lights for blocks from 700 feet to 1,049 feet long, and so on
 - Spacing for lights other than 150 watt fixtures, evaluated on a case by case basis