Exhibit No.: Issue(s): LED Street Lighting Witness: Krishna Poudel Sponsoring Party: MoPSC Staff Type of Exhibit: Rebuttal Testimony Case No.: ER-2019-0374 Date Testimony Prepared: March 3, 2020

MISSOURI PUBLIC SERVICE COMMISSION

INDUSTRY ANALYSIS DIVISION

ENERGY RESOURCES DEPARTMENT

REBUTTAL TESTIMONY

OF

KRISHNA POUDEL

THE EMPIRE DISTRICT ELECTRIC COMPANY

CASE NO. ER-2019-0374

Jefferson City, Missouri March 2020

| 1 | | REBUTTAL TESTIMONY OF | |
|----|--|---|--|
| 2 | | KRISHNA POUDEL | |
| 3 | | THE EMPIRE DISTRICT ELECTRIC COMPANY | |
| 4 | | CASE NO. ER-2019-0374 | |
| 5 | Q. | Please state your name and business address. | |
| 6 | А. | My name is Krishna Poudel, and my business address is Missouri Public Service | |
| 7 | Commission, P. O. Box 360, Jefferson City, Missouri 65102. | | |
| 8 | Q. | Are you the same Krishna L. Poudel that filed testimony on January 29, 2020, | |
| 9 | as a part of the Missouri Public Service Commission Staff's ("Staff") Staff Direct Report - | | |
| 10 | Class Cost of Service? | | |
| 11 | А. | Yes, I am. | |
| 12 | Q. | What is the purpose of your rebuttal testimony? | |
| 13 | А. | My rebuttal testimony will address the proposal of The Empire District Electric | |
| 14 | Company ("Empire") to (1) continue Empire's light emitting diode ("LED") municipal street | | |
| 15 | lighting tariff; (2) modify the original municipal street lighting tariff; and (3) add an LED option | | |
| 16 | to its Private Lighting Service tariff as filed in the Direct Testimony of Mr. Samuel S. McGarrah | | |
| 17 | on August 14, 2019. | | |
| 18 | Q. | Did Empire propose to continue its LED municipal street lighting tariff? | |
| 19 | А. | Yes. | |
| 20 | Q. | Does Staff support Empire's proposal to continue its LED municipal street | |
| 21 | lighting tariff | | |
| 22 | А. | Yes. | |
| 23 | Q. | Is Empire proposing any changes to its municipal street lighting tariff? | |
| | | | |

Rebuttal Testimony of Krishna Poudel

| 1 | Q. Please explain Empire's proposed changes. | | |
|----|--|--|--|
| 2 | A. Empire is proposing that the Municipal Street Lighting Tariff be modified so | | |
| 3 | that customers will still be able to choose High Pressure Sodium (HPS) light fixtures but will | | |
| 4 | not be able to choose Mercury Vapor (MV) light fixtures. Since MV lights are becoming | | |
| 5 | obsolete, Empire further proposes to convert all Company-owned MV municipal street light | | |
| 6 | fixtures to LED light fixtures (or HPS light fixtures if specified by the customer). | | |
| 7 | Approximately 8,500 MV light fixtures will be replaced with LED light fixtures over a | | |
| 8 | 1218 month period of time. | | |
| 9 | Q. Does Staff support Empire's proposed changes to the Municipal Street | | |
| 10 | Lighting Tariff? | | |
| 11 | A. Yes. | | |
| 12 | Q. Is Empire proposing to add a new LED option to its Private Lighting | | |
| 13 | Service tariff? | | |
| 14 | A. Yes. | | |
| 15 | Q. Please explain Empire's proposed addition of a LED option to its Private | | |
| 16 | Lighting Service tariff. | | |
| 17 | A. Empire is proposing to include four options for LED lights so that LED lights | | |
| 18 | can be installed on all new private installations unless HPS lighting is specifically requested. | | |
| 19 | Q. Does Staff support Empire's proposed addition of a LED option to its Private | | |
| 20 | Lighting Service tariff? | | |
| 21 | A. Yes. | | |
| 22 | Q. Does this conclude your rebuttal testimony? | | |
| 23 | A. Yes, it does. | | |
| | | | |

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of The Empire District Electric Company's Request for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in its Missouri Service Area

Case No. ER-2019-0374

AFFIDAVIT OF KRISHNA POUDEL

SS.

)

| STATE OF MISSOURI |) |
|-------------------|---|
| |) |
| COUNTY OF COLE |) |

COMES NOW KRISHNA POUDEL and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing *Rebuttal Testimony*; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

KRISHNA POUDEL

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 2^{4} day of March 2020.

D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires December 12, 2020 Commission Number: 12412070

Notary Public