Missoni Public Lornie Commission

STATE OF MISSOURI

PUBLIC SERVICE COMMISSION

In the matter of UNION ELECTRIC)
COMPANY of St. Louis, Missouri,)
for authority to file revised)
tariffs for incandescent lighting service provided to customers)
in the Missouri service area of)
the company.

CASE NO. ER-80-190

BEFORE:

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EDWARD J. CADIEUX, Presiding,

HEARING EXAMINER.

ALBERTA C. SLAVIN, Chairman, LEAH BROCK McCARTNEY,

COMMISSIONERS.

REPORTED BY:

Jan A. Williams Nancy A. Fox, CCR

Missoni Ballio Novico Commission

APPEARANCES I
MICHAEL BARNES, Attorney at Law,
and CHRIS RELLEHER, Attorney at Law,
Post Office Box 149, St. Louis, Missouri 63166,
FOR: UNION ELECTRIC COMPANY.
ROBERT G. BRADY, Attorney at Law, 500 North Broadway, Suite 2100, St. Louis, Missouri 63102,
and
DENNIS F. RAY, City Attorney,
6801 Delmar Boulevard, University City, Missouri 63130,
FOR: UNIVERSITY CITY, MISSOURI.
ERIC K. BANKS, Assistant General Counsel,
Post Office Box 360, Jefferson City, Missouri 65102,
FOR: STAFF OF THE PUBLIC SERVICE COMMISSION.
APPEARANCES OTHER THAN LEGAL:
JAMES L. CARL,
7110 Washington Avenue, University City, Missouri 63130,
APPEARING PRO SE.

PROCEEDINGS (EXHIBITS NOS. 1 TO 9 WERE MARKED BY THE 3 REPORTER FOR IDENTIFICATION.) (Written Entries of Appearance Filed.) EXAMINER CADIEUX: The hearing will come to order. The Commission has set for hearing at this 7 time Case No. ER-80-190, in the matter of Union Electric Company of St. Louis, Missouri, for authority to file tariffe for incandescent lighting service provided to customers in 10 the Missouri service area of the company. 11 The Commission will accept oral entries of 12 appearance at this time, beginning with the company. 13 MR. BARNES: Michael Barnes and Christopher 14 Kelleher appearing for Union Electric Company, Post Office 15 Box 149, St. Louis, Missouri, 63166. 16 MR. BRADY: Robert G. Brady, Bryan, Cave, 17 McPheeters & McRoberts, 500 North Broadway, St. Louis, 18 Missouri, 63102, appearing for the city of University City. 19 MR. KAY: Dennis F. Kay, city attorney, 20 city of University City, 6801 Delmar, University City, 21 Missouri, representing the city. 22 MR. BANKS: Eric Banks, 100 East Capitol, 23 Jefferson City, Missouri, appearing for the Commission Staff. 24 MR. CARL: James Carl, 7110 Washington, 25 University City, Missouri, appearing for myself.

EXAMINER CADIBUX: Let the record reflect that prior to going on the record the following order for the presentation of evidence and cross-examination has been established: Company will go first, followed by the Staff, then University City, and them Mr. Carl.

Are there any preliminary matters which the parties wish to address at this time?

(No response.)

EXAMINER CADIEUX: If not, Mr. Barnes, do you wish to make an opening statement?

MR. BARNES: Yes, Mr. Examiner. I'd like to make a very brief opening statement.

Union Electric Company wants to get out of the business of owning and maintaining incandescent street lights. We eventually want to change entirely to non-incandescent street lights. Toward that end, last December, we filed proposed changes to our three incandescent street lighting tariffs. The proposed change to each tariff consists of the addition of this single sentence:

Maintenance of standards, brackets, fixtures, and lamps will not be performed by company after December 31, 1980.

In support of its case, Union Electric will call three witnesses. The first witness will be Mr. Robert Merlo of our rates department who will identify the proposed tariff changes filed last December. He will also identify

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the four Union Electric street lighting taxiffs now in existence. These tariffs will be submitted into evidence in case the parties, during the course of this hearing, find it necessary to refer to them.

The second witness will be Mr. Ronald Zdellar of our transmission and distribution cost control unit. Mr. Zdellar will testify as to the basic reasons why Union Electric wants to eventually get out of the ownership and maintenance of incandescent street lighting. Mr. Zdellar's testimony will show how incandescent used to be just about the only street light that Union Electric had to offer. But he will show that since the 1960's mercury vapor and high pressure sodium street lights have taken over the street lighting business so that, now, only about 2 percent of our street lights are incandescent. In fact, Mr. Zdellar will testify that we have added no new incandescent street lighting customers for the last 14 years. Mr. Zdellar will testify that non-incandescent lighting is now dominant because it is more economical, more energy efficient, and easier to repair. Mr. Zdellar will testify that parts for incandescent street lighting generally are very expensive to buy, if, indeed, the parts can be found at all.

Union Electric's third and last witness will be Mr. Jack Gillum. Mr. Gillum will testify concerning the three basic options that will be available to all

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approves our plan to end maintenance of the incandescent street lights. Next, Mr. Gillum will identify and read a stipulation and agreement that the parties in this case, Union Electric, University City, and Mr. James Carl, have reached. This agreement which will be offered to the Commission for their approval concerns the red granite and cast-iron incandescent street light standards that are now in University City.

If the Commission approves the stipulation and agreement, Union Electric will offer the terms of the stipulation and agreement to all incandescent street lighting customers who have these red granite and cast-iron incandescent standards. Mr. Gillum will detail the three basic options available under the stipulation and agreement. Mr. Gillum will also note that the stipulation calls for Union Electric to delay its end of Maintenance date from December 31 of this year to July 1st of 1981.

In closing I might add that, in a case like this where the parties have reached a stipulation and agreement, it is unusual for the respondent to go ahead with evidence of its case. Usually, just the stipulation is put into evidence for the Commission's consideration. However, in this case the stipulation and agreement applies only as to how the company will phase out its maintenance and

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ownership of incandescent lighting. The company feels we still have to make a basic case to convince the Commission that we should be out of the incandescent lighting business to begin with. That concludes my opening statement.

EXAMINER CADIEUX: Mr. Banks, do you wish to make an opening statement at this time?

MR. BANKS: Yes, your Honor.

On Tuesday, September 16, 1980, there was a public hearing held in Clayton, Missouri, regarding Union Electric's request. At that time the citizens who were present raised several legitimate questions that needed to be addressed by the Commission Staff. The Staff has made an investigation. The witness for the Staff will present basic information regarding that investigation and how it impacts upon the stipulation that will be submitted for the Commission's approval.

EXAMINER CADIEUX: Mr. Brady.

MR. BRADY: If it please Mr. Examiner and the Commissioners, I think that what Mr. Barnes touched on at the last of his opening statement should be somewhat amplified.

to convince the Commission, that this stipulation was not

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lightly arrived at. This is not a typical settlement. This is an atypical settlement in that much depends upon several provisions, all the provisions, but especially upon several and, indeed, in particular, upon one provision of the settlement agreement.

To is the city's position that we want the Commission to fully understand that we are entering into this as an evidence of good faith in meturn for an evidence of good faith given to us by the company. We believe that we can amicably settle this matter and ask for the Commission's approval based upon that good faith attempt by both sides in this case. This is a case where nobody is getting exactly what they want. And we thought it important that the Commission understand that, at least, the city and, we believe, the company, too, recognizes that. And we will support the settlement.

With regard to Mr. Carl's presentation and the so-called historic or ornamental lights issue, the city supports Mr. Carl in his position. He is appearing here pro se. And, absent some untoward happening during the presentation of this very limited case, we will support his position as arrived at in the settlement and, also, ask that that be approved.

EXAMINER CADIEUX: Off the record.

(Discussion off the record.)

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EXAMINER CADIEUX: On the record.

Mr. Carl.

the settlement reached between myself, the city, and Union Electric because it is the best deal that I felt that the city and myself could get from the company. I wish to present evidence, with the Commission's permission, that we had, all along, a proposal that would have fit into the company philosophy of conversion to mercury vapor, phasing out an incandescent system of high intrinsic and historical value, and converting that system in conformity with company policy to mercury vapor. And the only way that we could get this system converted was to agree to the settlement by which this system is removed from Union Electric's care.

EXAMINER CADIEUX: Thank you, sir.

Mr. Barnes, do you wish to call your first witness?

MR. BARNES: Yes, Mr. Examiner. I'd like to call Mr. Robert Merlo to the stand, please.

(Witness sworn.)

EXAMINER CADIEUX: Before we begin with questioning, the record should reflect that Company's Exhibits 1 through 8 have been marked for identification

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prior to going on the record. Additionally, the stipulation and agreement, which has been referred to by the parties in their opening statements, has been marked for identification as Joint Exhibit 9.

Mr. Barnes.

ROBERT MERLO testified as follows:

DIRECT EXAMINATION BY MR. BARNES:

- Mr. Merlo, would you please state your name and address for the record.
- A My name is Robert C. Merlo. I live in St. Louis County, Missouri.
 - By whom are you employed?
 - A Union Electric Company.
 - A How long have you been employed by the company?
 - A Approximately seven years.
- Q Would you please give a brief history of the jobs you have held at the company?
- A I was originally employed as an assistant engineer in the subtransmission and bulk substation group of system planning at Union Electric in May, 1973. My responsibilities included the planning and development of the subtransmission system in St. Louis City and County and the planning of general design of bulk substations in that area. In addition, I performed special studies related to transmission and distribution line extensions, computer

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studies, and other general power system problems as assigned.

In June, 1977, I was promoted to engineer in system planning. In July, 1978, I transferred to my present position as an engineer in the rate engineering department. My responsibilities there include assignments related to retail and wholesale rate case proceedings, including both rate analysis and property valuation, the development and interpretation of tariffs relative to Union Electric's rates and rules and regulations, the development of special contracts, and other general rate administration projects as assigned.

Mr. Merlo, would you please give your educational background?

a I received a Bachelor of Science degree in electrical engineering in 1972 from the University of Missouri at Columbia, a Master of Science degree in electrical engineering in 1973 from the same university, and presently have completed more than half the requirements towards a Master of Business Administration at St. Louis University.

- Are you a registered professional engineer?
- A. Yes. I am a registered professional engineer in the states of Missouri, Illinois, and Iowa.
- Are you familiar with the subject matter of this proceeding?

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A Yes.

o Mr. Merlo, I hand you a copy of what has been marked "ompany Exhibit 1 and ask you to identify it;

This exhibit starts with a letter dated

December 20, 1979, to Mr. D. Michael Hearst, Secretary,

Missouri Public Service Commission, and is signed by

Stewart W. Smith, Jr., Executive Vice President, Union

Electric Company.

The letter states that the accompanying sheets are issued by Union Electric for filing as a revision of their schedule of rates for electric service. The attached sheets detail the changes requested for incandescent lighting in regard to maintenance. Attached are three tariff sheets regarding our three different incandescent lighting tariffs and, also, an Attachment A which compares the incandescent lighting rates to the replacement mercury vapor lamps. All of the numbers on both the tariff sheets and the attachment are correct as of December 20, 1979.

- Are those numbers correct today?
- A. These numbers are not correct today due to a renumbering scheme in the last Missouri electric rate case, which was effective May 30, 1980.

The correct numbers should be as follows:
The sheet numbered 75(M) with the service classification
No. 13(M) is now Sheet No. 46(M). It also refers to

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1	Class 6(M) rather than Class 13(M). Everything on these
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•	A Have the monthly rates been changed because
6	of a rate case in the interim?
7	A Wes. They were changed in relation to the
	rate case, which was effective May 30, 1980.
9	The second sheet numbered 81 has been changed
10	to 57(M). The sheet entitled "81" has been changed to 57(M).
11	and that referred to service classification No. 14 that is
12	now service classification No. 8(M).
13	The third sheet filed at that time was
14	numbered 97.5(M). That sheet has been renumbered to 54(M).
15	On that same sheet, it referred to service classification No. 20
16	And that is now service classification 7(M).
17	As referred to before, all text involved in
18	these sheets is the same as in the filed sheets.
19	CHAIRMAN SLAVIN: Mr. Barnes, do you have
20	copies of the actually filed tariffs which are current? Is
21	that one of your exhibits?
22	MR. BARNES: Yes, ma'am.
23	CHAIRMAN SLAVIN: Thank you.
24	BY MR. BARNES:
25	O Mr. Merlo, I hand you what has been marked

Company Exhibit 2 and ask you to identify it. This exhibit represents the new service 3 classification No. 6(M) and includes Page 46(M), which is the replacement sheet for the first filed sheet in our 5 original filing letter. It also includes the additional sheets of that tariff classification. 7 Mr. Merlo, I hand you a copy of what has 8 been marked Company Exhibit 3 and ask you to identify that. 9 This exhibit is a complete listing of what 10 is now service classification No. 7(M). It formerly was 11 service classification No. 20. It includes Sheet 54(M). 12 which is equivalent to the third sheet on our filing sheet 13 97.5. 14 Mr. Merlo, I hand you what has been marked 15 Company Exhibit 4 and ask you to identify it? 16 A. This exhibit represents the complete service 17 classification No. 8(M). It includes Sheet 57(M), which is 18 the replacement for our filling sheet No. 81. It includes 19 all pages applicable to that tariff classification. 20 Finally, Mr. Merlo, I hand you what has been marked Company Exhibit 5 and ask you to identify it. 21 22 This exhibit represents service classification 23 No. 5, our municipal street lighting mercury vapor and high pressure sodium service classification. It includes 24

complete tariff information on mercury vapor and high

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pressure sodium lighting available to municipalities.

Mr. Merlo, last December, when Union Electric filed these proposed tariff changes with the Missouri Public. Service Commission, which changes set a date for the end of company maintenance of incandescent street lights, did Union Electric at the same time file similar proposed tariff changes with the Illinois Commerce Commission and the Iowa State Commerce Commission?

Yes. On December 20, 1979, Union Electric filed Advice No. 364 with the Illinois Commerce Commission, also signed by Stewart W. Smith, Jr., Executive Vice President, Union Electric Company. This filing of Advice No. 364 was exactly the same as that filed in Missouri. The tariff sheet revisions were the parallel revisions of the Missouri tariffs for incandescent lighting system in Illinoid. This filing was subsequently accepted and effective on January 21, 1980, within the 30-day limitation of the initial filing.

In Iowa, on December 20, 1979, we also filed with the Iowa State Commerce Commission the same equivalent filing of street light changes. That filing was also accepted and put into effect on or after January 21, 1980. within the prescribed 30-day period.

MR. BARNES: Mr. Examiner, that completes my direct examination of Mr. Merlo. I offer him for any

Cross-examination.

EXAMINER CADIEUX: Mr. Sanks.

MR. BANKS: I have no questions, your Bonor.

EXAMINER CADIEUX: Mr. Brady.

MR. BRADY: City has no questions, your Honor.

MR. KAY: No questions.

MR. CARL: Just a very brief question,

Mr. Merlo.

QUESTIONS BY MR. CARL:

- The quotation of the luminosity in those tariffs, each rate is coupled with a given luminosity from the figures, I would ask you whether those are measured output from the fixtures or the stock catalog luminosity of bulbs as they exist by themselves?
- A. In order to be standard for all, they are the equivalent book or catalog type.
- In other words, it does not reflect the output of the fixtures.

Thank you.

MR. BRADY: I would like to hear his answer for the record to the question. I can phrase it again, but Mr. Carl phrased it.

EXAMINER CADIEUX: Mr. Merlo, did you have a further response?

WITNESS MERLO: What I stated was correct.

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1	If I could comment on Mr. Carl's. I did not say that it was
2	not the output measured on the street. I said it was the
3	catalog listing, which is an equivalent.
•	MR. BRADY: An equivalent of excuse me.
5	EXAMINER CADIEUX: Go ahead, Mr. Brady.
6	MR. BRADY: An equivalent of what, Mr. Merlo?
7	WITNESS MERLO: It is the equivalent output
8	of that fixture according to the manufacturer.
9	MR. BRADY: It's an equivalent output of the
10	light?
11	WITNESS MERLO: Right, of the light.
12	MR. BRADY: It is not in a luminaire or
13	contained in a fixture?
14	WITNESS MERLO: No, sir. That is correct.
15	MR. BRADY: Thank you.
16	EXAMINER CADIEUX: Mr. Barnes, do you have
17	any redirect or anything additional?
18	MR. BARNES: No.
19	QUESTIONS BY CHAIRMAN SLAVIN:
20	Q I don't in any way hold myself out to be an
21	expert on street lighting, but I have read a number of
22	articles which suggest that, I believe, your high pressure
23	sodium lights are a great deal more energy efficient than
24	the mercury vapor.
25	Could you tell me what percentage of your

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lighting in your service area is high pressure sodium and how much of it is mercury vapor, and if there are any plans of the company to make conversion if, in fact, it is a more efficient lighting system?

I can make available the exact percentages of mercury vapor and high pressure sodium on our system. I don't have that with me now, and I would have to check to see if any of our other people do. But I can provide that number for you.

The high pressure sodium, as you state, is more efficient on the lumens per watt rating. We do have it available in this service class No. 5. It is available to municipalities at this time in two sizes. At this time we are also studying its practicability in being offered in smaller sizes. Industry advances in that area may make it possible to offer that in smaller sizes in the future.

- Who would be interested in the smaller sizes; Q. what type of customer?
- Municipalities, possibly, for certain residential requirements and, also, private dusk to dawn applications.
- I think I did give you a lot of questions at once.

What is the plan of the company to convert to this more efficient system; is it only embodied in your Exhibit 5?

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	A The only high pressure sodium that is
	presently available is embodied in rate class No. 5. Other
	sizes are under study for offering.
	Q Would you just summarize to me how a
	conversion would be made and what it would cost for a
	municipality changing from a mercury varor to a bigh
7	pressure sodium?
8	MR. BARNES: Madam Chairman. I don't want in
9	interrupt, but possibly some of these questions would be
10	better directed to our two subsequent witnesses who are
11	specialists in just the kinds of questions you are asking
12	Mr. Merlo.
13	CHAIRMAN SLAVIN: Fine. That concludes my
14	questions of Mr. Merlo.
15	EXAMINER CADIEUX: Is there anything further
16	of this witness?
17	(No response.)
18	EXAMINER CADIEUX: Are there any objections
19	to Company Exhibits 1 through 5?
20	(No response.)
21	EXAMINER CADIEUX: If not, they are received
22	at this time.
23	(EXHIBITS NOS. 1 TO 5 WERE RECEIVED IN
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en uppersonale	EVIDENCE AND MADE A PART OF THIS RECORD.) EXAMINER CADIEUX: The witness is excused. Thank you.

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	(Witness excused.)
	EXAMINER CADIEUX: Nr. Barnes was see -121
	your next witness.
	MR. BARNES: i would like to call Mr. Ronald
\$ 6	Edellar to the witness stand.
7	(Witness sworn.)
9	——
10	PONALD EDELLAR testified as follows:
	DIRECT EXAMINATION BY MR. BARNES:
11	Q Please state your name and address for the
12	record.
13	A. My name is Ronald C. Edellar. I reside in
14	St. Louis County.
15	ρ By whom are you amployed?
16	A. By Union Electric Company.
17	Q How long have you been employed by Union
18	Electric Company?
19	
20	ten years.
21	Q. What positions have you held with the company
22	and for how long?
23	A. I was an assistant engineer in the special
Refugion, John	studies department of the transmission and distribution
24	function for approximately two and a half years. I worked
25	as an assistant engineer and an engineer in the corporate

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planning and rate department for approximately two years.

And now I've been in my present position of supervisor of cost control in the transmission and distribution department for five years.

- Q What are your duties now?
- the presentation and preparation of the annual budget for the entire transmission and distribution department. As a staff group, we are continually involved in the analysis of company policy related to distribution system, construction, operation, and maintenance. My group develops most costs used in internal decision-making within that department at Union Electric. We have developed numerous costs used by Union Electric in other commission proceedings.
 - What is your educational background?
- A. I have a Bachelor of Science degree in electrical engineering from Washington University. I also have a Master's degree in business administration from the same university.
- Q. Are you familiar with the subject matter of this proceeding?
- A. Yes. Last December, Union Electric filed with the Commission certain proposed changes for its incandescent street lighting tariffs. In particular, the company proposed to amend its service classifications No. 6(N),