

ORIGINAL

Decision No. 32834

BEFORE THE RAILROAD COMMISSION OF THE STATE OF CALIFORNIA

City of El Segundo,
 City of Huntington Park,
 City of Inglewood,
 City of Lynwood,
 City of Manhattan Beach,
 City of Redondo Beach,
 City of Signal Hill,
 City of Whittier,

Complainants,

-vs-

Southern California Edison Company,
 Limited,

Defendant.

Case No. 4337

 In the Matter of the Investigation on the
 Commission's own Motion into the rates,
 rules, regulations, contracts, practices,
 operations, and service, etc., of
 SOUTHERN CALIFORNIA EDISON COMPANY, LTD.,
 in connection with street and highway
 lighting service.

Case No. 4463

- ^ L. E. Stewart and Malcolm E. Stewart, for Complainants and City of South Gate.
- Clyde Woodworth, City Attorney, for the Cities of El Segundo, Inglewood, Manhattan Beach and South Gate.
- E. P. Mulholland, City Attorney, for the City of Signal Hill.
- Christopher J. Griffin, City Attorney, for the City of Huntington Park.
- J. H. Craigin, City Attorney, for the City of Maywood.
- H. B. Dobson, City Electrician, for the City of Santa Barbara.
- Louis Burke, City Attorney, for the City of Montebello.
- C. T. Gilliam, for the City of Arcadia.
- J. A. Savage, City Engineer, for the City of Porterville.
- Roy V. Reppy, Gail C. Larkin and B. F. Woodard, for defendant, by B. F. Woodard.

WAKEFIELD, COMMISSIONER:

O P I N I O N

The Proceedings

The Commission's investigation of street and highway lighting service of the Southern California Edison Company Ltd. has as its background a complaint filed by the City of El Segundo, et al., on June 15, 1938. In the original proceedings the complainants alleged, after having made an examination and study of the rates set forth in Schedule LS-1, Lighting - Street and Highway Service, that the LS-1 rates and charges are unjust and unreasonable in violation of Section 13-(a) of the Public Utilities Act of the State of California. Furthermore, they alleged that discrimination results to customers under Schedule LS-1, in violation of Section 19 of the said Public Utilities Act, because of application of optional street lighting schedules LS-2, Lighting - Street and Highway Service and LS-3, Lighting - Street and Highway Service.

Four hearings were held on the original complaint and the matter was submitted for decision on February 3, 1939.

Upon analyzing the record it then appeared that some adjustment in the street lighting rates complained of appeared warranted, but inasmuch as such adjustment would necessarily be system-wide in scope and might adversely affect users of the service not parties to the complaint, it was deemed advisable to reopen the proceeding and to institute an investigation on the Commission's own motion. This permitted a record to be developed covering the entire area served by the Edison Company and allowed all street lighting customers that might be favorably or unfavorably affected by the proposed adjustments to be heard.

Hearings were held on the Commission's own investigation on November 2, 1939 and December 7 and 8, 1939 in Los Angeles. In all, seven days of hearings were had, 76 exhibits in all were presented and the entire matter submitted for decision on December 8, 1939.

Rates in Controversy

Schedule LS-1 is applicable to all consumers of multiple or series incandescent street lighting service using bracket, center suspension or mast arm construction where the Company supplies the energy as well as owns and maintains the entire equipment. Two sets of rates are available; one for service to midnight and the other for all night service. These are flat rates per month, depending on the size of the series or multiple lamps. Quantity discounts are given for gross monthly billings over \$300. Billing is made on the basis of each separate delivery point, except for (1) any separately organized county lighting district, and (2) any incorporated municipality.

Schedule LS-2 is applicable to all consumers of street lighting service using multiple or series incandescent lamps where the consumer owns the equipment and the Company supplies energy at one or more central points. As in the previous rate, service is rendered to midnight or all night. The rate consists of two separate parts: (1) energy charge and (2) lamp maintenance charge. This enables the consumer to maintain his own equipment and purchase energy alone, or purchase energy plus maintenance and thus have the Company service his equipment.

The difference between rates LS-1 and LS-2 is accounted for by the ownership of the equipment. Under LS-1 the street lighting equipment is owned wholly by the Company, whereas under

IS-2 the equipment and part of the distribution system is owned and operated by the consumer.

Schedule IS-3 is applicable to all consumers of multiple and series incandescent street lighting service using electrolier and other lighting systems, where the consumer owns the equipment and the Company supplies energy at one or more central points. This rate provides for the sale of energy through a meter in contrast to the flat rates based on lamp sizes of the two previous rates outlined. Maintenance service can be purchased at the rate of \$0.10 per lamp per month and provides for the inspection, cleaning and labor of replacing lamps and globes.

Initial Proceedings

The evidence initially presented dealt with the history of the street lighting rates and presented some computations in reference to the cost to render this service. The complainants pointed out that the defendant utility, between 1923 and 1938, made reductions from time to time in each class of street lighting service but did not accord the same percentage reduction to each class during this period, consequently, the present rates do not provide a balanced relationship which, they contend, brings about discrimination as between the rates and customer classes.

Comparison of the Edison rates in Southern California were made with those of the Pacific Gas and Electric Company in Northern California. From this study, the complainants deduced that the charges arising from defendant's investment in street lighting equipment was excessive. In addition, complainants presented partial analyses of costs to substantiate these deductions. Such showing was sharply challenged through rebuttal testimony by the defendant and partial information as to system-wide

earnings and costs of rendering service were presented in evidence to combat complainants' showing.

Commission's Investigation

The evidence presented in these initial hearings was used in part as the basis for making a cost of service study and drawing up a set of proposed rates. These rates were introduced in evidence by an engineer from our Gas and Electric Division, Mr. M. W. Edwards, at the November 2nd hearing. The proposed rates provided for a general readjustment bringing about certain increases as well as reductions though the net effect was an over-all reduction. On the LS-3 metered rate, for example, the cost of half-night service was increased while service to all night customers was decreased. The proposed LS-2 schedule was calculated from the LS-3 basic costs and carried similar adjustments. The LS-1 rates carried through the adjustments provided in LS-2 and LS-3 and, in addition, carried a lesser investment charge for the larger sizes of lamps than under the present rates.

At the subsequent hearing, December 8 and 9, both the complainants and the defendant, using the staff's basic cost figures, made certain calculations and arrived at different conclusions in regard to rates and the amount of energy losses in rendering series and multiple service.

Evidence submitted by the complainants tended to show that a better balance might be obtained as between the half-night and the all night service on proposed Schedule LS-3 by decreasing the length of the first block and raising, slightly, the energy

rate in the second block.⁽¹⁾ The defendant submitted results of tests that showed larger energy losses in rendering series service than had been allowed by the staff. When these losses are fully reflected, evidence showed that the half-night rates were considerably low and the all night rates slightly high. Basically, the record shows that half-night service requires the same investment as all night service, wherein the difference in charge should be only the cost of producing and distributing energy during system off-peak hours (11 P.M. to 6 A.M.). The evidence, based upon cost to serve, justifies an increase in the charges for half-night service. Cost to serve, however, is but one of the factors which should be considered, along with others, in the fixing of rates. In this instant case, the rate differential which has been accorded to consumers for many years and upon which the load has been developed and investment has been made should not, in our opinion, be lightly disregarded. Furthermore, the defendant utility does not urge rate increases. However, simply decreasing the rates will not eliminate the discrimination which the complainants have sought to correct. The Commission is of the opinion that adjustments both ways are necessary, but increases at this time should be kept to the very minimum with this further thought in mind that when readjustments in rates are again made, the relationship between half and all night service should be further improved as conditions at that time dictate.

The Company now makes an additional charge for mast arm or center suspension construction. There are some advantages

(1) The IS-3 rate originally recommended by this Commission's staff for Zone A (Exh. No. 50) was:

A - For First 100 K.w. or less of demand:	
First 150 Kw-hrs. per month per K.w. connected	2.50¢ per Kw-hr.
All over 140 " " " " " "	.70¢ " "

in the way of simplification and uniformity to be gained by incorporation of this charge in the regular IS-1 rate. The inclusion of such charges does raise some objections inasmuch as varying degrees of mast arm and center suspension construction actually may be used, while the rates necessarily must carry a fixed allowance for such construction. However, there is a practical difficulty arising from the application of a separate charge and, further, to coordinate the rates more nearly in both parts of the state, the inclusion of this charge is believed warranted and the new rates ordered will so provide.

The rates recommended in the following order recognize the difference in cost of service between the three rate zones (A), (B) and (C) due to varying load densities. To reflect more fully the lowering cost incident to larger demands, two sets of schedules are provided; one for the first 100 kilowatts of demand and a lesser charge for all excess over the first 100 kilowatts. This segregation is deemed more equitable than the present gross billing discount and will replace it under Schedule IS-1. Schedule IS-2, likewise, will be changed to this form with the result that all three tariffs will provide for lower charges for connected loads in excess of 100 kilowatts.

A review of the proposed rates shows that while the smaller user, who is not now paying his way, will be slightly raised, yet, because of reductions made in the larger lamp sizes as well as those for all night service, the effect of the new rates is to produce a net annual reduction of approximately \$60,000 and in percentages estimated by rate schedules as follows:

<u>Rate Schedule</u>	<u>Type of Service</u>	<u>Per Cent</u>
IS-1	Flat rate - complete service	8.0
IS-2	Flat rate - energy & maintenance	3.0
IS-3	Meter rate for energy	1.0

The present rates are, likewise, viewed as somewhat discriminatory because of minimum charges based on delivery points. On account of the difficulty of determining what a delivery point is, there has resulted an unbalancing in the required number of meters, switches and control points as between different customers and localities. Some customers apparently have gone to considerable expense to bring their circuits to one central point, where but one meter and few switches are required, while other customers have not so coordinated their circuits with the result that delivery is made at a larger number of points with attending greater cost to serve. In order to remedy, in part, this situation, the new rates will have the meter and switch charges set apart from the lamp charges, whereupon the minimum charge will be determined by the required number of control timing points. While segregation of these charges may slightly raise those customers' bills who require an excessive number of meters, switches and timing points in relation to load, it is believed that most of those customers, after making proper rearrangement of their circuits, will realize eventual savings.

Accordingly, it is my judgment that the existing street lighting rate schedules should be revised, as generally indicated heretofore, to effect a more balanced system of rates and charges.

I recommend the following form of Order:

O R D E R

The above proceedings having been heard and submitted for decision, and after consideration of the evidence, it is hereby found that Southern California Edison Company Ltd. rate Schedules LS-1, LS-2 and LS-3, for the future, will be unjust, unreasonable and discriminatory insofar as they differ from the rates herein prescribed.

IT IS ORDERED that Southern California Edison Company Ltd. file, not later than March 18, 1940, to become effective on April 30, 1940, Schedules LS-1, LS-2 and LS-3 containing the rates and conditions set forth in Appendix "A" attached to this Order, and to make said rates applicable to all meter readings and/or bills rendered for flat rate service after April 30, 1940.

IT IS FURTHER ORDERED that upon the filing of said rate schedules, Southern California Edison Company Ltd. shall mail copies of said schedules to all customers receiving service thereunder.

The foregoing Opinion and Order are hereby approved and ordered filed as the Opinion and Order of the Railroad Commission of the State of California.

The effective date of this decision shall be twenty (20) days after the date hereof.

Dated at San Francisco, California, this 27th day of February, 1940.

Ray A. Riley
James R. Dwyer
Walter W. Waberski
H. B. Allen
Justus J. Coleman
Commissioners.

APPENDIX "A"

ZONE A

LIGHTING - STREET AND HIGHWAY
FLAT RATE - COMPLETE SERVICE

SCHEDULE LS-1

SERVICE

Applicable for service to street and highway lighting systems using incandescent filament lamps with brackets, center suspension or mast arm construction where the Company owns and maintains the entire equipment.

TERRITORY

Zone A consisting generally of that part of Los Angeles County, situated west of the San Gabriel, Rio Hondo and Los Angeles Rivers, including the Long Beach area situated west of the Orange County line, all as more specifically described in Preliminary Statement.

RATES

I Series Systems

<u>Lamp Rating</u>	<u>Rate Per Lamp Per Month</u>			
	<u>(A) 1st 100 Kilowatts</u>		<u>(B) All over 100 Kilowatts</u>	
	<u>Burning Schedule</u>		<u>Burning Schedule</u>	
<u>Section</u>	<u>All Night</u>	<u>Midnight</u>	<u>All Night</u>	<u>Midnight</u>
600 Lumen	\$1.15	\$1.01	\$1.12	\$0.99
800 "	1.36	1.20	1.33	1.18
1,000 "	1.54	1.37	1.51	1.35
2,500 "	2.31	1.97	2.25	1.94
4,000 "	2.88	2.39	2.80	2.34
6,000 "	3.49	2.82	3.40	2.77
10,000 "	4.67	3.68	4.53	3.59

Normal horizontal candle power of series lamps is one-tenth (1/10) of their lumen ratings

2. Switching Charge (To be added to Light Charge) \$1.50 per switch per month
3. Minimum Charge \$5.00 per month for each timing point

II Multiple Systems

<u>Lamp Rating</u>	<u>Rate Per Lamp Per Month</u>			
	<u>(A) 1st 100 Kilowatts</u>		<u>(B) All over 100 Kilowatts</u>	
	<u>Burning Schedule</u>		<u>Burning Schedule</u>	
<u>Section</u>	<u>All Night</u>	<u>Midnight</u>	<u>All Night</u>	<u>Midnight</u>
25 Watts	\$0.94	\$0.97	\$0.92	\$0.85
40 "	1.09	1.00	1.07	0.96
50 "	1.24	1.13	1.21	1.11
60 "	1.40	1.38	1.37	1.26
75 "	1.64	1.49	1.61	1.47
100 "	1.96	1.77	1.93	1.75
150 "	2.36	2.08	2.32	2.05
200 "	2.66	2.28	2.60	2.25
300 "	3.32	2.73	3.24	2.69
500 "	4.52	3.55	4.39	3.49
750 "	6.22	4.71	6.10	4.61
1,000 "	7.48	5.66	7.34	5.53

2. Switching Charge (To be added to Light Charge) \$0.50 per switch per month
3. Minimum Charge \$2.50 per month for each timing point

SPECIAL CONDITIONS

- (a) Reflector lighting units will be furnished for all sizes of multiple lamps and for series lamps of all sizes up to and including 2,500 lumens. Refractor lighting units will be furnished for series lamps larger than the 2,500 lumen size. For an additional charge of \$0.15 per lamp per month, a refractor lighting unit will be furnished for the 2,500 lumen size.
- (b) Where customer desires service beyond midnight, but not all night, the additional charge for each hour of service after midnight for any lamp size will be on the basis of a charge per lamp per month equal to one fifth (1/5) of the differential between the all night charge and the midnight charge for that lamp size.
- (c) Billing shall be made on the basis of each timing point considered as a separate customer, except for the following classes of customers:
- 1 - Any separately organized County Lighting District
 - 2 - Any Incorporated Municipality

For the above classes of customers, all timing points shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company. In the event that any customer has a total in excess of 100 kilowatts of lamp load, the Section "B" rates shall be applied to such excess. In determining which portion of the load will be served under Section "A" start with the smallest series size lamp and continue through the largest series lamp, first for all night, and then for midnight, and then continue in the same order through the multiple sizes, until a total of 100 kilowatts of lamp load (to nearest lamp size) is reached.

- (d) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens:	600	800	1000	2500	4000	6000	10,000
Watts:	46	57	64	145	220	320	530

- (e) Timing point is considered as any point of control of street lighting, where switching is performed by either mechanical or manual control.

ZONE A

LIGHTING - STREET AND HIGHWAY
FLAT RATE ENERGY AND MAINTENANCE SERVICE

SCHEDULE LS-2

SERVICE

Applicable to service to street lighting systems using incandescent lamps where customers own the equipment and the Company furnishes energy at one or more central points.

TERRITORY

Zone A consisting generally of that part of Los Angeles County situated west of the San Gabriel, Rio Hondo and Los Angeles Rivers, including the Long Beach area situated west of the Orange County line, all as more specifically described in Preliminary Statement.

RATES

I Company supplies energy and switching service only

1. Energy Charge

Section	Rate Per Lamp Per Month			
	(A) 1st 100 Kw. Lamp Load		(B) All over 100 Kw. Lamp Load	
	Burning Schedule		Burning Schedule	
	All Night	Midnight	All Night	Midnight
<u>Lamp Rating</u>				
(a) Series Systems:				
600 Lumens	\$0.22	\$0.20	\$0.26	\$0.19
800 "	.34	.24	.32	.23
1,000 "	.32	.27	.36	.26
2,500 "	.84	.59	.79	.57
4,000 "	1.27	.89	1.20	.85
6,000 "	1.81	1.28	1.73	1.24
10,000 "	2.93	2.11	2.80	2.03
(b) Multiple Systems:				
40 Watts	\$0.23	\$0.17	\$0.22	\$0.16
50 "	.26	.20	.26	.19
60 "	.33	.24	.31	.23
100 "	.53	.38	.51	.37
150 "	.79	.57	.76	.55
250 "	1.05	.75	1.00	.73
300 "	1.56	1.12	1.49	1.09
500 "	2.59	1.86	2.47	1.81
750 "	3.82	2.78	3.71	2.69
1,000 "	5.01	3.69	4.88	3.57

2. Switching Charge (To be added to Energy Charge):
- (a) Series Systems \$1.50 per switch per month
 - (b) Multiple Systems50 per switch per month
3. Minimum Charge
- (a) Series Systems \$5.00 per timing point per month
 - (b) Multiple Systems 2.50 per timing point per month

II Company supplies energy and switching service and maintains lamps

1. Lamp Charge

Section	Rate Per Lamp Per Month			
	(A) 1st 100 Kw. Lamp Load		(B) All over 100 Kw. Lamp Load	
	Burning Schedule		Burning Schedule	
Lamp Rating	All Night	Midnight	All Night	Midnight
(a) Series Systems:				
600 Lumens	\$0.48	\$0.54	\$0.45	\$0.32
800 "	.54	.38	.51	.36
1,000 "	.58	.41	.55	.39
2,500 "	1.11	.77	1.05	.74
4,000 "	1.58	1.09	1.50	1.04
6,000 "	2.19	1.52	2.10	1.47
10,000 "	3.57	2.38	3.23	2.29
(b) Multiple Systems:				
40 Watts	\$0.39	\$0.30	\$0.37	\$0.28
50 "	.44	.35	.41	.31
60 "	.49	.37	.46	.35
100 "	.70	.51	.67	.49
150 "	.99	.71	.95	.68
200 "	1.29	.91	1.23	.88
300 "	1.95	1.36	1.87	1.32
500 "	3.15	2.18	3.02	2.12
750 "	4.85	3.54	4.73	3.24
1,000 "	6.11	4.29	5.97	4.16

2. Switching Charge (To be added to Lamp Charge):

- (a) Series Systems \$1.50 per switch per month
- (b) Multiple Systems50 per switch per month

3. Minimum Charge

- (a) Series Systems \$5.00 per timing point per month
- (b) Multiple Systems 2.50 per timing point per month

SPECIAL CONDITIONS

- (a) The Company will furnish and maintain all transformers, regulators, and feeder lines necessary to deliver service:
 - 1 - To series systems at the secondary side of constant current regulating transformers, which shall be located at a point or points agreed upon by the customer and the Company, and
 - 2 - To multiple systems at the service locations and at the standard lamp voltage designated by the customer.
- (b) Customer, except as hereinafter provided, will furnish and maintain all utilization equipment for series systems beyond the secondary side of constant current regulating transformers and for multiple systems beyond the service locations designated by the customer.

SPECIAL CONDITIONS (Continued)

- (c) Service under Part I covers energy and switching service only. Service under Part II covers, in addition, lamp maintenance. Lamp maintenance service furnished by the Company shall include the following service to lamps and globes:

- 1 - Renewal of lamps after the original installation by the customer.
- 2 - Regular inspection.
- 3 - Periodic cleaning of globes not to exceed four cleanings per year.
- 4 - Labor of replacing lamps and globes.

Under Provision (4) lamps for renewal will be furnished when needed by the Company, and globes will be furnished by the customer from stock held at central locations, accessible to agents of the Company for obtaining replacements or at the customer's request, the Company will furnish globe renewals when needed, and will bill the customer for them.

- (d) In the event that the customer desires to furnish all lamps for renewal from stock held at central locations accessible to agents of the Company, the Company will furnish all of the maintenance service listed under Special Condition (c) above, except lamp renewals for a charge of ten (\$0.10) cents per month. In such case the ten (\$0.10) cents per lamp charge will be added to the Part I energy rates in order to determine the total monthly bill per lamp.
- (e) Billing shall be made on the basis of each timing point considered as a separate customer, except for the following classes of customers:
- 1 - Any separately organized County Lighting District.
 - 2 - Any Incorporated Municipality.

For the above classes of customers, all timing points shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company. In the event that any customer has a total of over 100 kilowatts of lamp load, the Section "B" rates shall be applied to such excess. In determining which portion of the load will be served under Section "A" start with Part I with the smallest series size lamp and continue through the largest series lamp, first for all night, next for midnight, and continue in the same order through the multiple sizes, then proceed if necessary through Part II in the same order until a total of 100 kilowatts of lamp load (to nearest lamp size), is reached.

SPECIAL CONDITIONS (Continued)

- (f) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens:	600	800	1000	2500	4000	6000	10000
Watts:	46	57	64	145	220	320	530

- (g) Timing point is considered as any point of control of street lighting, where switching is performed by either mechanical or manual control.

ZONE A

LIGHTING - STREET AND HIGHWAY
METERED ENERGY SERVICE

SCHEDULE LS - 3

SERVICE

Applicable for service to street lighting, using electrolier and other lighting systems, where the customer owns the equipment and the Company supplies energy at one or more central points.

TERRITORY

Zone A consisting generally of that part of Los Angeles County, situated west of the San Gabriel, Rio Hondo and Los Angeles rivers, including the Long Beach area situated west of the Orange County line, all as more specifically described in Preliminary Statement.

RATES

1. Energy Charge

A. For the first 100 kw. or less of connected load:

First 135 kwh. per month per kw. connected 2.45¢ per kwh.
All over 135 kwh. per month per kw. connected 0.80¢ per kwh.

B. For all connected load in excess of the first 100 kw:

First 135 kwh. per month per kw. connected 2.40¢ per kwh.
All over 135 kwh. per month per kw. connected 0.70¢ per kwh.

2. Meter Service Charge (to be added to energy charge)

For each meter required (multiple or series) \$1.00 per month

3. Switching Charge (to be added to energy and meter service charges if switching service is furnished by the Company)

(a) Multiple Systems \$0.50 per switch per month
(b) Series Systems 1.50 per switch per month

4. Minimum Charge

(a) Multiple Systems \$2.50 per meter per month
(b) Series Systems 5.00 per meter per month

SPECIAL CONDITIONS

(a) The Company will furnish and maintain all transformers, regulators and feeder lines necessary to deliver service.

SPECIAL CONDITIONS (Continued)

1. To series systems at the secondary side of constant current regulating transformers, which shall be located at a point or points agreed upon by the customer and the company, and
 2. To multiple systems at the service location and at the standard lamp voltage designated by the customer.
- (b) Customer will furnish and maintain all utilization equipment for series systems beyond the secondary side of constant current regulating transformers and for multiple systems beyond the service location designated by customer.
- (c) Meter locations for series systems, shall be on the primary supply circuit to the constant current regulating transformers at the Company substation or other central point acceptable to the Company, and for multiple systems shall be at a point adjacent to the service location designated by the customer.
- (d) For an additional charge of \$0.10 per lamp per month the Company will furnish the following service to lamps and globes of incandescent filament lamps only:
1. Regular inspection.
 2. Periodic cleaning of globes, not to exceed four cleanings per year.
 3. Labor of replacing lamps and globes.

Under this provision, lamps and globes will be furnished by the customer from stock held at central locations accessible to agents of the Company for obtaining replacements, or at the customer's request, the Company will furnish lamp and globe renewals when needed and will bill the customer for them.

- (e) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens	600	800	1000	2500	4000	6000	10,000
Watts	46	57	64	145	220	320	530

- (f) Connected load for any customer shall be the summation of the rated lamp capacity served through each separate meter except where combination of meter readings is permitted under Special Condition (h)

- (g) Billing shall be made as follows:

1. For 100 or less kw. of connected load, Rate "A" shall be applicable to the total consumption.
2. For more than 100 kw. of connected load:
Rate "A" shall be applicable to the first 100 kw. and that part of the total consumption determined by multiplying the total kilowatt hours by the ratio of 100 divided by the total connected load. Rate "B" shall be applicable to the remaining kilowatts and kilowatt-hours.

SPECIAL CONDITIONS (Continued)

- (h) Billing shall be made on the basis of each separate meter considered as a separate customer except for the following classes of customers:

1. Any separately organized County Lighting District
2. Any incorporated municipality

For the above classes of customers all meter readings shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company.

- (i) This schedule contemplates switching by the Company (on the Company side of points of connection to customers' circuits) in accordance with a standard burning schedule. In case the necessary switches and switching service is supplied by the customer, no switching charge will be made.
- (j) Sodium vapor and mercury vapor lamp maintenance service, at the option of the customer will be furnished under this schedule by the Company for all night service at the following additional charges per lamp:

- 10,000 Lumen - Sodium Vapor Lamp - \$2.00 per month
- 400 Watt - Mercury Vapor Lamp - 2.00 per month
- 250 Watt - Mercury Vapor Lamp - 2.00 per month

Lamp maintenance service under this special condition shall be the same as under special condition (d) except that the Company will furnish lamp unit renewals and minor adjustments to equipment. Abnormal maintenance due to faulty design, manufacture or installation is not included.

ZONE B

LIGHTING - STREET AND HIGHWAY
FLAT RATE - COMPLETE SERVICE

SCHEDULE LS-1

SERVICE

Applicable for service to street and highway lighting systems using incandescent filament lamps with brackets, center suspension or mast arm construction where the Company owns and maintains the entire equipment.

TERRITORY

Zone "B" consisting generally of Santa Barbara, Ventura, Orange, Riverside, San Bernardino Counties and Los Angeles County east of the San Gabriel, Rio Hondo and Los Angeles Rivers, all as more specifically described in Preliminary Statement.

RATES

I Series Systems

<u>Section</u>	<u>Rate Per Lamp Per Month</u>			
	<u>(A) 1st 100 Kilowatts</u>		<u>(B) All over 100 Kilowatts</u>	
	<u>Burning Schedule</u>			
	<u>All Night</u>	<u>Midnight</u>	<u>All Night</u>	<u>Midnight</u>
<u>Lamp Rating</u>				
600 Lumen	\$1.15	\$1.02	\$1.12	\$1.00
800 "	1.37	1.21	1.34	1.19
1,000 "	1.55	1.38	1.52	1.36
2,500 "	2.32	1.99	2.26	1.96
4,000 "	2.89	2.41	2.81	2.36
6,000 "	3.50	2.84	3.41	2.79
10,000 "	4.68	3.71	4.54	3.62

Normal horizontal candle power of series lamps is one-tenth (1/10) of their lumen rating

2. Switching Charge (To be added to light charge) \$1.50 per switch per month
3. Minimum Charge \$5.00 per month for each timing point

II Multiple Systems

<u>Section</u>	<u>Rate Per Lamp Per Month</u>			
	<u>(A) 1st 100 Kilowatts</u>		<u>(B) All over 100 Kilowatts</u>	
	<u>Burning Schedule</u>			
	<u>All Night</u>	<u>Midnight</u>	<u>All Night</u>	<u>Midnight</u>
<u>Lamp Rating</u>				
25 Watts	\$0.94	\$0.88	\$0.92	\$0.86
40 "	1.09	1.01	1.07	0.99
50 "	1.24	1.14	1.22	1.12
60 "	1.40	1.29	1.38	1.27
75 "	1.64	1.51	1.62	1.49
100 "	1.96	1.79	1.94	1.77
150 "	2.37	2.10	2.33	2.07
200 "	2.67	2.30	2.61	2.27
300 "	3.33	2.75	3.25	2.71
500 "	4.53	3.57	4.41	3.51
750 "	6.23	4.73	6.12	4.64
1,000 "	7.50	5.69	7.37	5.58

2. Switching Charge (To be added to light charge) \$0.50 per switch per month
3. Minimum Charge \$2.50 per month for each timing point

SPECIAL CONDITIONS

- (a) Reflector lighting units will be furnished for all sizes of multiple lamps and for series lamps of all sizes up to and including 2,500 lumens. Refractor lighting units will be furnished for series lamps larger than the 2,500 lumen size. For an additional charge of \$0.15 per lamp per month, a refractor lighting unit will be furnished for the 2,500 lumen size.
- (b) Where customer desires service beyond midnight, but not all night, the additional charge for each hour of service after midnight for any lamp size will be on the basis of a charge per lamp per month equal to one fifth (1/5) of the differential between the all night charge and the midnight charge for that lamp size.
- (c) Billing shall be made on the basis of each timing point considered as a separate customer, except for the following classes of customers:

- 1 - Any separately organized County Lighting District
- 2 - Any Incorporated Municipality

For the above classes of customers, all timing points shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company. In the event that any customer has a total in excess of 100 kilowatts of lamp load, the Section "B" rates shall be applied to such excess. In determining which portion of the load will be served under Section "A" start with the smallest series size lamp and continue through the largest series lamp, first for all night, and then for midnight, and then continue in the same order through the multiple sizes, until a total of 100 kilowatts of lamp load (to nearest lamp size) is reached.

- (d) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens:	600	800	1000	2500	4000	6000	10,000
Watts:	46	57	64	145	220	320	530

- (e) Timing point is considered as any point of control of street lighting, where switching is performed by either mechanical or manual control.

ZONE B

LIGHTING - STREET AND HIGHWAY
FLAT RATE ENERGY AND MAINTENANCE SERVICE

SCHEDULE LS-2

SERVICE

Applicable to service to street lighting systems using incandescent lamps where customers own the equipment and the Company furnishes energy at one or more central points.

TERRITORY

Zone "B" consisting generally of Santa Barbara, Ventura, Orange, Riverside, San Bernardino Counties and Los Angeles County east of the San Gabriel, Rio Hondo and Los Angeles Rivers, all as more specifically described in Preliminary Statement.

RATES

I Company supplies energy and switching service only

1. Energy Charge	Rate Per Lamp Per Month				
	Section	(A) 1st 100 Kw. Lamp Load		(B) All over 100 Kw. Lamp Load	
		Burning Schedule		Burning Schedule	
Lamp Rating	All Night	Midnight	All Night	Midnight	
(a) Series Systems:					
600 Lumens	\$0.28	\$0.30	\$0.26		\$0.19
800 "	.34	.24	.32		.23
1,000 "	.38	.27	.36		.25
2,500 "	.85	.60	.80		.58
4,000 "	1.28	.90	1.21		.86
6,000 "	1.82	1.29	1.74		1.25
10,000 "	2.94	2.13	2.81		2.05
(b) Multiple Systems:					
40 Watts	\$0.23	\$0.17	\$0.22		\$0.16
50 "	.28	.20	.27		.19
60 "	.33	.24	.32		.23
100 "	.53	.39	.52		.38
150 "	.80	.58	.77		.56
250 "	1.06	.76	1.01		.74
300 "	1.57	1.13	1.50		1.10
500 "	2.60	1.87	2.49		1.32
750 "	3.84	2.79	3.73		2.71
1,000 "	5.03	3.71	4.91		3.60
2. <u>Switching Charge</u> (To be added to Energy Charge):					
(a) Series Systems \$1.50 per switch per month					
(b) Multiple Systems50 per switch per month					
3. <u>Minimum Charge</u>					
(a) Series Systems \$5.00 per timing point per month					
(b) Multiple Systems 2.50 per timing point per month					

II Company supplies energy and switching service and maintains lamps

1. <u>Lamp Charge</u> Section	Rate Per Lamp Per Month			
	(A) 1st 100 Kw. Lamp Load		(B) All over 100 Kw. Lamp Load	
	Burning Schedule		Burning Schedule	
<u>Lamp Rating</u>	<u>All Night</u>	<u>Midnight</u>	<u>All Night</u>	<u>Midnight</u>
(a) Series Systems:				
600 Lumens	\$0.48	\$0.35	\$0.45	\$0.33
800 "	.54	.39	.51	.37
1,000 "	.58	.42	.55	.40
2,500 "	1.12	.79	1.06	.76
4,000 "	1.59	1.11	1.51	1.06
6,000 "	2.20	1.54	2.11	1.49
10,000 "	3.38	2.41	3.24	2.32

(b) Multiple Systems:

40 Watts	\$0.39	\$0.31	\$0.37	\$0.29
50 "	.44	.34	.42	.32
60 "	.49	.39	.47	.36
100 "	.70	.53	.66	.51
150 "	1.00	.73	.96	.70
200 "	1.30	.93	1.24	.90
300 "	1.98	1.38	1.88	1.34
500 "	3.16	2.20	3.04	2.14
750 "	4.87	3.36	4.75	3.26
1,000 "	6.14	4.32	6.00	4.21

2. Switching Charge (To be added to Lamp Charge):

- (a) Series Systems \$1.50 per switch per month
- (b) Multiple Systems 0.50 per switch per month

3. Minimum Charge

- (a) Series Systems . . . \$5.00 per timing point per month
- (b) Multiple Systems . . . 2.50 per timing point per month

SPECIAL CONDITIONS

(a) The Company will furnish and maintain all transformers, regulators, and feeder lines necessary to deliver service.

1 - To series systems at the secondary side of constant current regulating transformers, which shall be located at a point or points agreed upon by the customer and the Company, and

2 - To multiple systems at the service locations and at the standard lamp voltage designated by the customer.

(b) Customer, except as hereinafter provided, will furnish and maintain all utilization equipment for series systems beyond the secondary side of constant current regulating transformers and for multiple systems beyond the service locations designated by the customer.

SPECIAL CONDITIONS (Continued)

- (c) Service under Part I covers energy and switching service only. Service under Part II covers, in addition, lamp maintenance. Lamp maintenance service furnished by the Company shall include the following service to lamps and globes:

- 1 - Renewal of lamps after the original installation by the customer.
- 2 - Regular Inspection.
- 3 - Periodic cleaning of globes not to exceed four cleanings per year.
- 4 - Labor of replacing lamps and globes.

Under Provision (4) lamps for renewal will be furnished when needed by the Company, and globes will be furnished by the customer from stock held at central locations, accessible to agents of the Company for obtaining replacements or at the customer's request, the Company will furnish globe renewals when needed, and will bill the customer for them.

- (d) In the event that the customer desires to furnish all lamps for renewal from stock held at central locations accessible to agents of the Company, the Company will furnish all of the maintenance service listed under Special Condition (c) above, except lamp renewals for a charge of eleven (\$.11) cents per month. In such case the eleven (\$.11) cents per lamp charge will be added to the Part I energy rates in order to determine the total monthly bill per lamp.
- (e) Billing shall be made on the basis of each timing point considered as a separate customer, except for the following classes of customers:
- 1 - Any separately organized County Lighting District.
 - 2 - Any Incorporated Municipality.

For the above classes of customers, all timing points shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company. In the event that any customer has a total of over 100 kilowatts of lamp load, the Section "B" rates shall be applied to such excess. In determining which portion of the load will be served under Section "A" start with Part I, with the smallest series size lamp and continue through the largest series lamp first for all night, next for midnight and continue in the same order through the multiple sizes, then proceed, if necessary, through Part II in the same order until a total of 100 kilowatts of lamp load (to nearest lamp size) is reached.

- (f) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens:	600	800	1000	2500	4000	6000	10,000
Watts:	46	57	84	145	220	320	530

- (g) Timing point is considered as any point of control of street lighting, where switching is performed by either mechanical or manual control.

ZONE BLIGHTING - STREET AND HIGHWAY
METERED ENERGY SERVICESCHEDULE LS - 3SERVICE

Applicable for service to street lighting, using electrolier and other lighting systems, where the customer owns the equipment and the Company supplies energy at one or more central points.

TERRITORY

Zone "B" consisting generally of Santa Barbara, Ventura, Orange, Riverside, San Bernardino Counties and Los Angeles County east of San Gabriel, Rio Hondo and Los Angeles rivers, all as more specifically described in Preliminary Statement.

RATES1. Energy Charge

A. For the first 100 kw. or less of connected load:

First 135 kwh. per month per kw. connected 2.47¢ per kwh.
All over 135 kwh. per month per kw. connected 0.80¢ per kwh.

B. For all connected load in excess of the first 100 kw:

First 135 kwh. per month per kw. connected 2.42¢ per kwh.
All over 135 kwh. per month per kw. connected 0.70¢ per kwh.

2. Meter Service Charge (to be added to energy charge)

For each meter required (multiple or series) \$1.00 per month

3. Switching Charge (to be added to energy and meter service charges if switching service is furnished by the Company)

(a) Multiple Systems \$0.50 per switch per month
(b) Series Systems 1.50 per switch per month

4. Minimum Charge

(a) Multiple Systems \$2.50 per meter per month
(b) Series Systems 5.00 per meter per month

SPECIAL CONDITIONS

(a) The Company will furnish and maintain all transformers, regulators and feeder lines necessary to deliver service.

SPECIAL CONDITIONS (Continued)

1. To series systems at the secondary side of constant current regulating transformers, which shall be located at a point or points agreed upon by the customer and the company, and
 2. To multiple systems at the service location and at the standard lamp voltage designated by the customer.
- (b) Customer will furnish and maintain all utilization equipment for series systems beyond the secondary side of constant current regulating transformers and for multiple systems beyond the service location designated by customer.
- (c) Meter locations for series systems, shall be on the primary supply circuit to the constant current regulating transformers at the Company substation or other central point acceptable to the Company, and for multiple systems shall be at a point adjacent to the service location designated by the customer.
- (d) For an additional charge of \$0.11 per lamp per month the Company will furnish the following service to lamps and globes of incandescent filament lamps only:

1. Regular inspection.
2. Periodic cleaning of globes, not to exceed four cleanings per year.
3. Labor of replacing lamps and globes.

Under this provision, lamps and globes will be furnished by the customer from stock held at central locations accessible to agents of the Company for obtaining replacements, or at the customer's request, the Company will furnish lamp and globe renewals when needed and will bill the customer for them.

- (e) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens	600	800	1000	2500	4000	6000	10,000
Watts	46	57	64	145	220	320	530

- (f) Connected load for any customer shall be the summation of the rated lamp capacity served through each separate meter except where combination of meter readings is permitted under Special Condition (h)
- (g) Billing shall be made as follows:
1. For 100 or less kw. of connected load, Rate "A" shall be applicable to the total consumption.
 2. For more than 100 kw. of connected load:
Rate "A" shall be applicable to the first 100 kw. and that part of the total consumption determined by multiplying the total kilowatt hours by the ratio of 100 divided by the total connected load. Rate "B" shall be applicable to the remaining kilowatts and kilowatt-hours.

SPECIAL CONDITIONS (Continued)

(h) Billing shall be made on the basis of each separate meter considered as a separate customer except for the following classes of customers:

1. Any separately organized County Lighting District
2. Any incorporated municipality

For the above classes of customers all meter readings shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company.

- (i) This schedule contemplates switching by the Company (on the Company side of points of connection to customers' circuits) in accordance with a standard burning schedule. In case the necessary switches and switching service is supplied by the customer, no switching charge will be made.
- (j) Sodium vapor and mercury vapor lamp maintenance service, at the option of the customer will be furnished under this schedule by the Company for all night service at the following additional charges per lamp:

10,000 Lumen - Sodium Vapor Lamp - \$2.00 per month
400 Watt - Mercury Vapor Lamp - 2.00 per month
250 Watt - Mercury Vapor Lamp - 2.00 per month

Lamp maintenance service under this special condition shall be the same as under special condition (d) except that the Company will furnish lamp unit renewals and minor adjustments to equipment. Abnormal maintenance due to faulty design, manufacture or installation is not included.

ZONE C

LIGHTING - STREET AND HIGHWAY
FLAT RATE - COMPLETE SERVICE

SCHEDULE LS-1

SERVICE

Applicable for service to street and highway lighting systems using incandescent filament lamps with brackets, center suspension or mast arm construction where the Company owns and maintains the entire equipment.

TERRITORY

Zone C consisting generally of San Joaquin Valley and Antelope Valley, all as more specifically described in Preliminary Statement.

RATES

I Series Systems

1. <u>Light Charge</u> Section	Rate Per Lamp Per Month			
	(A) 1st 100 Kilowatts		(B) All over 100 Kilowatts	
	Burning Schedule		Burning Schedule	
Lamp Rating	All Night	Midnight	All Night	Midnight
600 Lumen	\$1.15	\$1.02	\$1.12	\$1.00
900 "	1.33	1.22	1.34	1.20
1,000 "	1.56	1.40	1.53	1.38
2,500 "	2.34	2.01	2.22	1.98
4,000 "	2.91	2.43	2.83	2.38
6,000 "	3.52	2.87	3.44	2.81
10,000 "	4.71	3.74	4.57	3.55

Normal horizontal candle power of series lamps is one-tenth (1/10) of their lumen rating

2. Switching Charge (To be added to Light Charge) \$1.50 per switch per month

3. Minimum Charge \$5.00 per month for each timing point

II Multiple Systems

1. <u>Light Charge</u> Section	Rate Per Lamp Per Month			
	(A) 1st 100 Kilowatts		(B) All over 100 Kilowatts	
	Burning Schedule		Burning Schedule	
Lamp Rating	All Night	Midnight	All Night	Midnight
25 Watts	\$0.94	\$0.88	\$0.92	\$0.86
40 "	1.09	1.01	1.07	0.99
50 "	1.24	1.14	1.22	1.12
60 "	1.40	1.29	1.38	1.28
75 "	1.65	1.52	1.63	1.50
100 "	1.92	1.80	1.95	1.78
150 "	2.39	2.11	2.35	2.08
200 "	2.69	2.31	2.63	2.29
300 "	3.35	2.76	3.27	2.73
500 "	4.55	3.59	4.43	3.53
750 "	6.22	4.76	6.15	4.66
1,000 "	7.55	5.72	7.41	5.61

2. Switching Charge (To be added to Light Charge) \$0.50 per switch per month

3. Minimum Charge \$2.50 per month for each timing point

SPECIAL CONDITIONS

- (a) Reflector lighting units will be furnished for all sizes of multiple lamps and for series lamps of all sizes up to and including 2,500 lumens. Refractor lighting units will be furnished for series lamps larger than the 2,500 lumen size. For an additional charge of \$0.15 per lamp per month, a refractor lighting unit will be furnished for the 2,500 lumen size.
- (b) Where customer desires service beyond midnight, but not all night, the additional charge for each hour of service after midnight for any lamp size will be on the basis of a charge per lamp per month equal to one fifth (1/5) of the differential between the all night charge and the midnight charge for that lamp size.
- (c) Billing shall be made on the basis of each timing point considered as a separate customer, except for the following classes of customers:

- 1 - Any separately organized County Lighting District
- 2 - Any Incorporated Municipality

For the above classes of customers, all timing points shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company. In the event that any customer has a total in excess of 100 kilowatts of lamp load, the Section "B" rates shall be applied to such excess. In determining which portion of the load will be served under Section "A" start with the smallest series size lamp and continue through the largest series lamp, first for all night, and then for midnight, and then continue in the same order through the multiple sizes, until a total of 100 kilowatts of lamp load (to nearest lamp size) is reached.

- (d) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens:	600	800	1000	2500	4000	6000	10,000
Watts:	46	57	64	145	220	320	530

- (e) Timing point is considered as any point of control of street lighting, where switching is performed by either mechanical or manual control.

ZONE C

LIGHTING - STREET AND HIGHWAY
FLAT RATE ENERGY AND MAINTENANCE SERVICE

SCHEDULE LS - 2

SERVICE

Applicable to service to street lighting systems using incandescent lamps where customers own the equipment and the Company furnishes energy at one or more central points.

TERRITORY

Zone C consisting generally of San Joaquin Valley and Antelope Valley, all as more specifically described in Preliminary Statement.

RATES

I Company supplies energy and switching service only

1. <u>Energy Charge</u> Section	<u>Rate Per Lamp Per Month</u>			
	<u>(A) 1st 100 Kw. Lamp Load</u>		<u>(B) All over 100 Kw. Lamp Load</u>	
	<u>Burning Schedule</u>		<u>Burning Schedule</u>	
	<u>All Night</u>	<u>Midnight</u>	<u>All Night</u>	<u>Midnight</u>
<u>Lamp Rating</u>				
(a) <u>Series Systems:</u>				
600 Lumens	\$0.28	\$0.20	\$0.26	\$0.19
800 "	.34	.25	.32	.24
1,000 "	.39	.28	.36	.27
2,500 "	.86	.61	.91	.59
4,000 "	1.29	.91	1.22	.87
6,000 "	1.83	1.31	1.76	1.26
10,000 "	2.96	2.15	2.83	2.07
(b) <u>Multiple Systems:</u>				
40 Watts	\$0.23	\$0.17	\$0.22	\$0.16
50 "	.28	.20	.27	.19
60 "	.33	.24	.32	.23
100 "	.54	.39	.52	.38
150 "	.81	.58	.78	.56
250 "	1.07	.76	1.02	.74
300 "	1.58	1.13	1.51	1.10
500 "	2.61	1.88	2.51	1.82
750 "	3.37	2.81	3.75	2.72
1,000 "	5.07	3.73	4.94	3.63
2. <u>Switching Charge (To be added to Energy Charge)</u>				
(a) <u>Series Systems</u> \$1.50 per switch per month				
(b) <u>Multiple Systems</u>50 per switch per month				
3. <u>Minimum Charge</u>				
(a) <u>Series Systems</u> \$5.00 per timing point per month				
(b) <u>Multiple Systems</u> 2.50 per timing point per month				

II Company supplies energy and switching service and maintains lamps

1. <u>Lamp Charge</u> Section	Rate Per Lamp Per Month			
	(A) 1st 100 Kw. Lamp Load		(B) All over 100 Kw. Lamp Load	
	Burning Schedule		Burning Schedule	
	All Night	Midnight	All Night	Midnight

Lamp Rating

(a) Series Systems:				
600 Lumens	\$0.48	\$0.35	\$0.45	\$0.33
800 "	.54	.40	.51	.38
1,000 "	.60	.44	.56	.42
2,500 "	1.14	.81	1.08	.78
4,000 "	1.61	1.13	1.53	1.08
6,000 "	2.22	1.57	2.14	1.51
10,000 "	3.41	2.44	3.27	2.35

(b) Multiple Systems:				
40 Watts	\$0.39	\$0.31	\$0.37	\$0.29
50 "	.44	.34	.42	.32
60 "	.49	.38	.47	.36
100 "	.72	.54	.69	.52
150 "	1.02	.74	.98	.71
200 "	1.32	.94	1.26	.91
300 "	1.98	1.39	1.90	1.35
500 "	3.18	2.22	3.06	2.15
750 "	4.90	3.39	4.78	3.29
1,000 "	6.18	4.35	6.04	4.24

2. Switching Charge (to be added to Lamp Charge)

- (a) Series Systems \$1.50 per switch per month
- (b) Multiple Systems 0.50 Per switch per month

3. Minimum Charge

- (a) Series Systems \$5.00 per timing point per month
- (b) Multiple Systems 2.50 per timing point per month

SPECIAL CONDITIONS

(a) The Company will furnish and maintain all transformers, regulators, and feeder lines necessary to deliver service.

1 - To series systems at the secondary side of constant current regulating transformers, which shall be located at a point or points agreed upon by the customer and the Company, and

2 - To multiple systems at the service locations and at the standard lamp voltage designated by the customer.

(b) Customer, except as hereinafter provided, will furnish and maintain all utilization equipment for series systems beyond the secondary side of constant current regulating transformers and for multiple systems beyond the service locations designated by the customer.

SPECIAL CONDITIONS (continued)

- (c) Service under Part I covers energy and switching service only. Service under Part II covers, in addition, lamp maintenance. Lamp maintenance service furnished by the Company shall include the following service to lamps and globes:

- 1 - Renewal of lamps after the original installation by the customer.
- 2 - Regular Inspection.
- 3 - Periodic cleaning of globes not to exceed four cleanings per year.
- 4 - Labor of replacing lamps and globes.

Under Provision (4) lamps for renewal will be furnished when needed by the Company, and globes will be furnished by the customer from stock held at central locations, accessible to agents of the Company for obtaining replacements or at the customer's request, the Company will furnish globe renewals when needed, and will bill the customer for them.

- (d) In the event that the customer desires to furnish all lamps for renewal from stock held at central locations accessible to agents of the Company, the Company will furnish all of the maintenance service listed under Special Condition (c) above, except lamp renewals for a charge of eleven (\$.11) cents per month. In such case the eleven (\$.11) cents per lamp charge will be added to the Part I energy rates in order to determine the total monthly bill per lamp.
- (e) Billing shall be made on the basis of each timing point considered as a separate customer, except for the following classes of customers:
- 1 - Any separately organized County Lighting District.
 - 2 - Any Incorporated Municipality.

For the above classes of customers, all timing points shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company. In the event that any customer has a total of over 100 kilowatts of lamp load, the Section "B" rates shall be applied to such excess. In determining which portion of the load will be served under Section "A" start with Part I with the smallest series size lamp and continue through the largest series lamp first for all night, next for midnight and continue in the same order through the multiple sizes, then proceed, if necessary, through Part II in the same order until a total of 100 kilowatts of lamp load (to nearest lamp size) is reached.

- (f) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens:	600	800	1000	2500	4000	6000	10,000
Watts:	46	57	64	145	220	320	530

- (g) Timing point is considered as any point of control of street lighting, where switching is performed by either mechanical or manual control.

ZONE C

LIGHTING - STREET AND HIGHWAY
METERED ENERGY SERVICE

SCHEDULE LS - 3

SERVICE

Applicable for service to street lighting, using electrolier and other lighting systems, where the customer owns the equipment and the Company supplies energy at one or more central points.

TERRITORY

Zone C consisting generally of San Joaquin Valley and Antelope Valley, all as more specifically described in Preliminary Statement.

RATES

1. Energy Charge

A. For the first 100 kw. or less of connected load:

First 135 kwh. per month per kw. connected 2.50¢ per kwh.
All over 135 kwh. per month per kw. connected 0.80¢ per kwh.

B. For all connected load in excess of the first 100 kw:

First 135 kwh. per month per kw. connected 2.45¢ per kwh.
All over 135 kwh. per month per kw. connected 0.70¢ per kwh.

2. Meter Service Charge (to be added to energy charge)

For each meter required (multiple or series) \$1.00 per month

3. Switching Charge (to be added to energy and meter service charges if switching service is furnished by the Company)

(a) Multiple Systems \$0.50 per switch per month
(b) Series Systems 1.50 per switch per month

4. Minimum Charge

(a) Multiple Systems \$2.50 per meter per month
(b) Series Systems 5.00 per meter per month

SPECIAL CONDITIONS

(a) The Company will furnish and maintain all transformers, regulators and feeder lines necessary to deliver service.

SPECIAL CONDITIONS (Continued)

1. To series systems at the secondary side of constant current regulating transformers, which shall be located at a point or points agreed upon by the customer and the company, and
 2. To multiple systems at the service location and at the standard lamp voltage designated by the customer.
- (b) Customer will furnish and maintain all utilization equipment for series systems beyond the secondary side of constant current regulating transformers and for multiple systems beyond the service location designated by customer.
- (c) Meter locations for series systems, shall be on the primary supply circuit to the constant current regulating transformers at the Company substation or other central point acceptable to the Company, and for multiple systems shall be at a point adjacent to the service location designated by the customer.
- (d) For an additional charge of \$0.11 per lamp per month the Company will furnish the following service to lamps and globes of incandescent filament lamps on y:

1. Regular inspection.
2. Periodic cleaning of globes, not to exceed four cleanings per year.
3. Labor of replacing lamps and globes.

Under this provision, lamps and globes will be furnished by the customer from stock held at central locations accessible to agents of the Company for obtaining replacements, or at the customer's request, the Company will furnish lamp and globe renewals when needed and will bill the customer for them.

- (e) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens	600	800	1000	2500	4000	6000	10,000
Watts	46	57	64	145	220	320	530

- (f) Connected load for any customer shall be the summation of the rated lamp capacity served through each separate meter except where combination of meter readings is permitted under Special Condition (h)

- (g) Billing shall be made as follows:

1. For 100 or less kw. of connected load, Rate "A" shall be applicable to the total consumption.
2. For more than 100 kw. of connected load:
Rate "A" shall be applicable to the first 100 kw. and that part of the total consumption determined by multiplying the total kilowatt hours by the ratio of 100 divided by the total connected load. Rate "B" shall be applicable to the remaining kilowatts and kilowatt-hours.

SPECIAL CONDITIONS (Continued)

(h) Billing shall be made on the basis of each separate meter considered as a separate customer except for the following classes of customers:

1. Any separately organized County Lighting District
2. Any incorporated municipality

For the above classes of customers all meter readings shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company.

- (i) This schedule contemplates switching by the Company (on the Company side of points of connection to customers' circuits) in accordance with a standard burning schedule. In case the necessary switches and switching service is supplied by the customer, no switching charge will be made.
- (j) Sodium vapor and mercury vapor lamp maintenance service, at the option of the customer will be furnished under this schedule by the Company for all night service at the following additional charges per lamp:

10,000 Lumen - Sodium Vapor Lamp - \$2.00 per month
400 Watt - Mercury Vapor Lamp - 2.00 per month
250 Watt - Mercury Vapor Lamp - 2.00 per month

Lamp maintenance service under this special condition shall be the same as under special condition (d) except that the Company will furnish lamp unit renewals and minor adjustments to equipment. Abnormal maintenance due to faulty design, manufacture or installation is not included.

SAN BERNARDINO MOUNTAIN ZONE

LIGHTING - STREET AND HIGHWAY
FLAT RATE - COMPLETE SERVICE

SCHEDULE LS-1

SERVICE

Applicable for service to street and highway lighting systems using incandescent filament lamps with brackets, center suspension or mast arm construction where the Company owns and maintains the entire equipment.

TERRITORY

San Bernardino Mountain Zone as more specifically described in Preliminary Statement.

RATES

I Series Systems

<u>Lamp Rating</u>	<u>Section</u>	<u>Rate Per Lamp Per Year</u>			
		<u>(A) 1st 100 Kilowatts</u>		<u>(B) All over 100 Kilowatts</u>	
		<u>Burning Schedule</u>			
		<u>All Night</u>	<u>Midnight</u>	<u>All Night</u>	<u>Midnight</u>
600 Lumen		\$16.20	\$14.64	\$16.08	\$14.40
800 "		19.80	17.40	19.32	17.16
1,000 "		22.20	19.92	21.84	19.56
2,500 "		33.36	28.68	32.52	28.20
4,000 "		41.64	34.68	40.44	33.96
6,000 "		50.40	40.92	49.08	40.20
10,000 "		67.44	53.40	65.40	52.08

Normal horizontal candle power of series lamps is one-tenth (1/10) of their lumen rating.

2. Switching Charge (To be added to Light Charge) \$1.50 per switch per month

3. Minimum Charge \$5.00 per month for each timing point

II Multiple Systems

<u>Lamp Rating</u>	<u>Section</u>	<u>Rate Per Lamp Per Year</u>			
		<u>(A) 1st 100 Kilowatts</u>		<u>(B) All over 100 Kilowatts</u>	
		<u>Burning Schedule</u>			
		<u>All Night</u>	<u>Midnight</u>	<u>All Night</u>	<u>Midnight</u>
25 Watts		\$13.56	\$12.72	\$13.20	\$12.36
40 "		15.72	14.52	15.36	14.28
50 "		17.88	16.44	17.52	16.08
60 "		20.16	18.60	19.92	18.24
75 "		23.64	21.72	23.28	21.48
100 "		28.20	25.80	27.84	25.44
150 "		34.08	30.24	33.60	29.76
200 "		38.40	33.12	37.56	32.64
300 "		48.00	39.60	46.80	39.00
500 "		65.28	51.36	63.48	50.52
750 "		89.76	68.16	88.08	66.84
1,000 "		108.00	81.96	106.08	80.40

2. Switching Charge (To be added to Light Charge) \$0.50 per switch per month

3. Minimum Charge \$2.50 per month for each timing point

SPECIAL CONDITIONS

- (a) Reflector lighting units will be furnished for all sizes of multiple lamps and for series lamps of all sizes up to and including 2,500 lumens. Refractor lighting units will be furnished for series lamps larger than the 2,500 lumen size. For an additional charge of \$2.16 per lamp per year, a refractor lighting unit will be furnished for the 2,500 lumen size.
- (b) Where customer desires service beyond midnight, but not all night, the additional charge for each hour of service after midnight for any lamp size will be on the basis of a charge per lamp per month equal to one fifth (1/5) of the differential between the all night charge and the midnight charge for that lamp size.
- (c) Billing shall be made on the basis of each timing point considered as a separate customer, except for the following classes of customers:
- 1 - Any separately organized County Lighting District
 - 2 - Any Incorporated Municipality

For the above classes of customers, all timing points shall be combined and billed as a single customer for all service furnished and billed directly to such customer, when all street lighting of the customer is exclusively served by the Company. In the event that any customer has a total of over 100 kilowatts of lamp load, the Section "B" rates shall be applied to such excess. In determining which portion of the load will be served under Section "A" start with the smallest series size lamp and continue through the largest series lamp, first for all night, and then for midnight, and then continue in the same order through the multiple sizes, until a total of 100 kilowatts of lamp load (to nearest lamp size) is reached.

- (d) Total connected lamp capacity in kilowatts for series systems shall be determined on the following lamp ratings:

Lumens	600	800	1000	2500	4000	6000	10,000
Watts	46	57	64	145	220	320	530

- (e) Timing point is considered as any point of control of street lighting, where switching is performed by either mechanical or manual control.