

1986-1

ORDER

IN THE MATTER of an application by Yukon  
Electrical Company Limited for a change in the  
existing rates being charged to Teslin customers  
and a new rate for Northern Canada Power  
Commission at Johnson's Crossing.

ORDER 1986-1  
March 5, 1986

## A. Introduction

### Capital Application

On December 12, 1984 the Board received an application from Yukon Electrical Company Limited to construct and operate a primary distribution line from Marsh Lake to Teslin. The line size was proposed to be 34KV and cost \$1,600,000. A section of the existing line owned by Northern Canada Power Commission from the Lewes River bridge to Marsh Lake was to be upgraded from single to three phase.

The Board approved the extension on May 6, 1985 after determining that a) there would be no rate increase for Teslin customers and negligible cross subsidy by other customers served in the Whitehorse system and b) the line was economically feasible at a current purchased power rate of \$.0554/kwh.

### Rate Application

Yukon Electrical Company Limited submitted an application on November 26, 1985 for reduced Teslin rates and to establish a rate for sale of wholesale power to Northern Canada Power Commission at Johnson's Crossing.

Yukon Electrical Company Limited proposed that the new rates be effective on all billings after January 1, 1986 on all consumption after December 1, 1985. Yukon Electrical Company Limited proposed using existing Whitehorse rates plus a new rider J of 13.1 cents kwh for residential and 16.2 cents kwh for commercial.

For Johnson's Crossing a new rate, on schedule Y-W1, of 19.8 cents kwh was proposed.

The Company submitted that the 1986 costs for the line would be \$285,232 of which Teslin's share would be \$282,712 and Johnson's Crossing \$2,520. With adjustments for dedicated assets and disposed plant, the company calculated the cost would be \$269,179 and \$3,984 respectively.

The Company's estimates of the annual sales (excluding street lights and space lights) were 1,756,144 kwh for Teslin and 30,000 kwh for Johnson's Crossing.

## Public Notice

Public Notice of the application for a change of rate for Teslin was placed in the two local papers. The Board invited parties to indicate their position prior to December 27, 1985 to see if there would be enough interest to hold a Public Hearing. No interested parties responded. Accordingly the Board proceeded with the matter without a hearing.

### B. Decisions

In the Report on its Rate Design Inquiry dated May 31, 1983 the Board adopted certain principles which should be followed by utilities when establishing rates.

The Board recognizes that there are factors preventing the Company from establishing a rate design for Teslin which complies in all respects with the principles set forth in the Board's Report.

The Board, therefore, will approve Yukon Electrical Company Limited's application for a change in rates for Teslin and a new rate for Johnson's Crossing as submitted November 26, 1985 as a temporary measure.

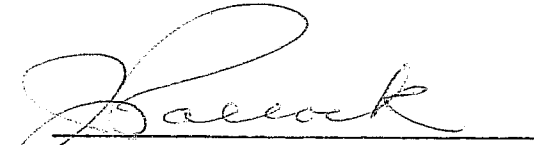
The Board directs Yukon Electrical Company Limited to submit, by July 1, 1986, a plan for the introduction of rates in the entire company system which comply with the principles set forth by the Board in the Report on its Rate Design Inquiry and which, in particular will,

1. resolve disparities between rate blocks,
2. re-examine customer charges,
3. establish rates which bear a reasonable relationship to cost,
4. maintain a declining block structure, and
5. maintain discrete rate schedules for each customer class.

The Board also directs Yukon Electrical Company Limited to submit a complete set of rates for the entire system which are in accordance with the aforementioned plan.

C. Order

The Board directs that the rates set forth in Appendix A attached hereto become effective for sales of electricity at Teslin and Johnson' Crossing for billings on and after January 1, 1986 respecting consumption on and after December 1, 1986.



J.L. Pollock, Chairman

Appendix A

Approved Rate Schedules

RATE SCHEDULE Y-11RESIDENTIAL SERVICEAVAILABLE:

In metropolitan Whitehorse and the Teslin System.

APPLICABLE:

To single-phase electric service at secondary voltage through a single meter, for normal use by a single or separate household. Not applicable to any commercial or industrial use.

RATE:

Charges for service in any one billing month shall be the sum of the following:

a) <u>Customer Charge</u>	\$3.30
b) <u>Energy Charge</u>	
For the first 200 kW.h	7.2¢/kW.h
For the next 300 kW.h	6.7¢/kW.h
All over 500 kW.h	6.3¢/kW.h

MINIMUM MONTHLY  
BILL:

Shall be \$7.80

LINE COST ADJUSTMENT: For Teslin System customers only, see Rider J.

RATE MODIFICATIONS  
APPLICABLE:

For multiple residence service on one meter, see Rider A.

ELECTRIC SERVICE  
REGULATIONS:

The Company's Electric Service Regulations approved by the Electrical Public Utilities Board (Yukon Territory) form part of this rate schedule and apply to the Company and every customer supplied with electric service by the Company in the Yukon Territory. Copies of the Electric Service Regulations are available for inspection in the offices of The Yukon Electrical Company Limited during normal working hours.

RATE SCHEDULE Y-15

RESIDENTIAL SERVICE

AVAILABLE:

In the communities of Beaver Creek, Destruction Bay, Lower Post, Pelly Crossing, Stewart Crossing, Swift River, and Upper Liard.

APPLICABLE:

To single-phase electric service at secondary voltage through a single meter, for normal use by single and separate household. Not applicable to any commercial or industrial use.

RATE:

Charges for service in any one billing month exclusive of fuel cost adjustment, shall be the sum of the following:

a) <u>Customer Charge</u>	\$3.90
b) <u>Energy Charge</u>	
For the first 200 kW.h	26.2¢/kW.h
For the next 300 kW.h	23.7¢/kW.h
All over 500 kW.h	18.3¢/kW.h

MINIMUM MONTHLY  
BILL:

Shall be \$7.80

FUEL COST ADJUSTMENT:

See Rider H.

RATE MODIFICATIONS  
APPLICABLE:

For multiple residence service on one meter, see Rider A.

ELECTRIC SERVICE  
REGULATIONS:

The Company's Electric Service Regulations approved by the Electrical Public Utilities Board (Yukon Territory) form part of this rate schedule and apply to the Company and every customer supplied with electric service by the Company in the Yukon Territory. Copies of the Electric Service Regulations are available for inspection in the offices of The Yukon Electrical Company Limited during normal working hours.



RATE SCHEDULE Y-21GENERAL SERVICE

- AVAILABLE: In metropolitan Whitehorse and the Teslin System.
- APPLICABLE: To any use of electric energy not inconsistent with safe and adequate service to all customers of the Company, except as more favourable options may apply.
- RATE: Charges for service in any one billing month shall be the sum of the following:
- a) Demand Charge
    - All kW of billing demand \$1.10 per kW
  - b) Energy Charge
    - For the first 200 kW.h per kW of billing demand 8.6¢ per kW.h
    - For the next 200 kW.h per kW of billing demand 7.5¢ per kW.h
    - For energy in excess of 400 kW.h per kW of billing demand 6.3¢ per kW.h
- MINIMUM MONTHLY BILL: Shall be the Demand Charge but not less than \$7.80.
- BILLING DEMAND: The billing demand may be estimated or measured and will be the greater of the following:
- a) the highest metered demand during the billing period.
  - b) the highest metered demand during the 12 months ending with the current billing month, excluding the months April through September.
  - c) the estimated demand
  - d) 5 kilowatts

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Rate Schedule Y-21 (Continued)

POWER FACTOR:

The foregoing rate is designed on the assumption that the customer will maintain a power factor of 90 percent or better during the period of his peak load. In those cases in which, by estimate or test, such power factor is not maintained, the customer's demand will be measured in kV.A and for the purposes of application of the foregoing rate, one kV.A shall be taken as one kW.

LINE COST ADJUSTMENT: For Teslin System customers only, see Rider J.

RATE  
MODIFICATIONS  
APPLICABLE:

For customers having small constant loads, whose monthly energy requirements can be estimated closely, see Rider B.

ELECTRIC SERVICE  
REGULATIONS:

The Company's Electric Service Regulations approved by the Electrical Public Utilities Board (Yukon Territory) form part of this rate schedule and apply to the Company and every customer supplied with electric service by the Company in the Yukon Territory. Copies of the Electric Service Regulations are available for inspection in the offices of The Yukon Electrical Company Limited during normal working hours.

RATE SCHEDULE Y-25GENERAL SERVICEAVAILABLE:

In the communities of Beaver Creek, Destruction Bay, Lower Post, Pelly Crossing, Stewart Crossing, Swin River, and Upper Liard.

APPLICABLE:

To any use of electric energy not inconsistent with safe and adequate service to all customers of the Company, except as more favourable options may apply.

RATE:

Charges for service in any one billing month exclusive of fuel cost adjustment shall be the sum of the following:

a) Demand Charge

All kW of billing demand	\$1.95 per kW
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b) Energy Charge

For the first 200 kW.h per kW of billing demand	26.0¢ per kW.h
For the next 200 kW.h per kW of billing demand	23.0¢ per kW.h
For energy in excess of 400 kW.h per kW of billing demand	18.3¢ per kW.h

MINIMUM MONTHLY  
BILL:

Shall be the Demand Charge but not less than \$7.80.

BILLING DEMAND:

The billing demand may be estimated or measured and will be the greater of the following:

- a) the highest metered demand during the billing period.
- b) the highest metered demand during the 12 months ending with the current billing month, excluding the months April through September.
- c) the estimated demand
- d) 1 kilowatt

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RATE SCHEDULE Y-61MUNICIPAL STREET LIGHTINGAVAILABLE:

In the community of Whitehorse and the Teslin System.

APPLICABLE:

To standard mercury vapour and sodium vapour street lights provided on wooden poles and serviced by overhead circuits. Not applicable for private lighting.

RATE:

For service rendered in any one billing month, follows:

<u>Approximate Light Output (Lumes)</u>	<u>Lamp Type and Size</u>	<u>Charge Per Unit</u>	<u>Energy Consumpti Per Unit (kW.h)</u>
7,000	175W MV	\$10.40	72
9,500	100W HPS	9.75	40
11,000	250W MV	12.65	97
13,500	90W LPS	9.80	38
15,800	150W HPS	11.05	59
20,000	400W MV	16.80	159
25,000	135W LPS	15.20	55
26,600	250W HPS	13.75	101
33,000	180W LPS	13.65	70
50,000	400W HPS	22.65	158

ELECTRIC SERVICE  
REGULATIONS:

The Company's Electric Service Regulations approved by the Electrical Public Utilities Board (Yukon Territory) form part of this rate schedule and apply to the Company and every customer supplied with electric service by the Company in the Yukon Territory. Copies of the Electric Service Regulations are available for inspection in the offices of The Yukon Electrical Company Limited during normal working hours.

RATE SCHEDULE Y-63MUNICIPAL STREET LIGHTINGAVAILABLE:

In the communities of Beaver Creek, Carcross, Carmacks, Destruction Bay, Haines Junction, Keno City, Lower Post, Marsh Lake, Old Crow, Pelly Crossing, Ross River, Stewart Crossing, Swift River, Tagish, Upper Liard and Watson Lake.

APPLICABLE:

To standard mercury vapour and sodium vapour street lights provided on wooden poles and serviced by overhead circuits. Not applicable for private lighting.

RATE:

For service rendered in any one billing month, as follows:

<u>Approximate Light Output (Lumes)</u>	<u>Lamp Type and Size</u>	<u>Charge Per Unit</u>	<u>Energy Consumption Per Unit (kw.h)</u>
7,000	175W MV	\$12.90	72
9,500	100W HPS	11.10	40
11,000	250W MV	15.95	97
13,500	90W LPS	11.15	38
15,800	150W HPS	13.05	59
20,000	400W MV	22.25	159
25,000	135W LPS	17.10	55
26,600	250W HPS	17.20	101
33,000	180W LPS	16.05	70
50,000	400W HPS	28.05	158

FUEL COST ADJUSTMENT:

See Rider G for the community of Watson Lake.

See Rider H for the communities of Beaver Creek, Destruction Bay, Lower Post, Pelly Crossing, Stewart Crossing, Swift River, Teslin and Upper Liard.

See Rider I for the community of Old Crow.

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RATE SCHEDULE Y-75

PRIVATE LIGHTING, WHITEHORSE

AVAILABLE:

In metropolitan Whitehorse and the Teslin System.

APPLICABLE:

To off-street private lighting at 120/240 volt service on a twelve month contract and under special conditions to Municipal Corporations for lighting in summer villages with a minimum six-month billing.

RATE:

For service rendered in any one billing month, as follows:

	<u>100 Watt HPS</u>	<u>A 175 Watt MV 7,000 Lumen</u>	<u>A 250 Watt MV 11,000 Lumen</u>	<u>A 400 Watt MV 20,000 Lumen</u>	<u>400 Watt MV Floodlig Unit</u>
1. Normal 12-month unmetered service	\$7.70	\$9.30	\$11.40	\$15.00	\$16.60
2. Energy and maintenance only (Customer pays installation cost)	4.20	6.45	8.55	12.05	12.80
3. Twelve month service through customer meter, deduct	2.50	4.60	6.20	10.20	10.20

NOTE:

- A. These are sentinel units having a 30-inch bracket. They are not regular street lighting units. Lamps are energized by a photoelectric controller and operate approximately 4,000 hours per annum.
- B. Normal installation includes one duplex span of approximately 150 feet, one 30 foot wood pole and fixture. All additional extension costs will be borne by the customers.
- C. Privately-owned street lighting units will be supplied energy and re-lamped only for the charges shown in #2 above.

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RATE SCHEDULE Y-76PRIVATE LIGHTING, SERVICEAVAILABLE:

In the communities of Beaver Creek, Carcross, Carmacks, Destruction Bay, Haines Junction, Keno City, Lower Post, Marsh Lake, Old Crow, Pelly Crossing, Ross River, Stewart Crossing, Swift River, Tagish, Upper Liard and Watson Lake.

APPLICABLE:

To off-street private lighting at 120/240 volt service on a twelve month contract and under special conditions to Municipal Corporations for lighting in summer villages with a minimum six-month billing.

RATE:

Exclusive of fuel cost adjustment. For service rendered in any one billing month, as follows:

		A 175 Watt MV 7,000 Lumen	A 250 Watt MV 11,000 Lumen	A 400 Watt MV 20,000 Lumen	400 Watt MV Floodlight Unit
	100 Watt HPS				
1. Normal 12-month unmetered service	\$9.25	\$12.10	\$15.20	\$21.20	\$22.75
2. Energy and maintenance only (Customer pays installation cost)	5.75	9.25	12.35	18.25	19.00
3. Twelve month service through customer meter, deduct	4.15	7.40	10.00	16.35	16.35

NOTE:

- A. These are sentinel units having a 30-inch bracket. They are not regular street lighting units. Lamps are energized by a photoelectric controller and operate approximately 4,000 hours per annum.
- B. Normal installation includes one duplex span of approximately 150 feet, one 30 foot wood pole and fixture. All additional extension costs will be borne by the customers.

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RIDER H

FUEL COST ADJUSTMENT FOR BEAVER CREEK,  
DESTRUCTION BAY, LOWER POST, PELLY CROSSING, STEWART  
CROSSING, SWIFT RIVER AND UPPER LIARD

APPLICABLE:

To all electric service in the communities of Beaver Creek, Destruction Bay, Lower Post, Pelly Crossing, Stewart Crossing, Swift River and Upper Liard.

RATE:

Service will be rendered at the available rate with the addition of the following charge in respect of the Company's unit fuel costs:

1.04¢ per kW.h on all energy used.

NOTE:

The charge in this Rider will change in accordance with changes in the Company's fuel costs calculated on a unit basis by reference to kW.h sales. Such changes to the charge in this Rider shall be implemented coincident with changes in the Company's fuel costs, or in such time as is practical.

\*\* This rider is based on the levels in place at the time of filing. Fuel price adjustments which take place between that time and the implementation of the proposed rate for the Teslin System will have to be reflected in this rider.



RIDER J

LINE COST RIDER FOR TESLIN SYSTEM

APPLICABLE:

To all Residential and General Service customers served from the Whitehorse-to-Teslin line.

RATE:

Residential	13.1¢/kW.h
General Service	16.2¢/kW.h