

Section:	Tab 6, Appendix 6.3	Page No.:	21 of 25
Topic:	Area and Roadway Lighting		
Subtopic:	Outdoor Lighting Rate – Tariff no. 2015-80		
Issue:	Basis for the Billing Determinant		

PREAMBLE TO IR (IF ANY):

The City of Winnipeg has been unable to obtain from Manitoba Hydro the count of shared pole luminaires and exclusive pole luminaires that Manitoba Hydro uses in billing the City of Winnipeg under the Outdoor Lighting Rate, nor the basis therefor.

QUESTION:

Please provide a detailed count of the luminaires used by Manitoba Hydro for billing purposes, including the type(s) of luminaire(s) at each location.

RATIONALE FOR QUESTION:

The count of luminaires is the ARL equivalent of the metered volume used to bill customers. There is no process analogous to certification of meters to provide confidence that the « meter reading » for the City of Winnipeg is correct. The City of Winnipeg wishes to obtain the information necessary to determine what the luminaire count is, what type of luminaire is located at each location and whether it should have confidence in the information relied upon by Manitoba Hydro for billing purposes.

RESPONSE:

The details requested are provided in the following tables.

Service Location	Rate Description	Units
ROSSER AREA	100 W HPS EXCLUSIVE	64
	100 W HPS SHARED	38
	1000W HPS EXCLUSIVE	6
	150 W HPS EXCLUSIVE	198
	150 W HPS SHARED	6
	250 W HPS EXCLUSIVE	37
	250 W HPS SHARED	5
	400 W HPS EXCLUSIVE	162
	400 W HPS SHARED	44
	70 W HPS EXCLUSIVE	657
	70 W HPS SHARED	120
		1337

Service Location	Rate Description	Units
FORT GARRY	100 W HPS EXCLUSIVE	1,160
	100 W HPS SHARED	163
	1000W HPS 1-60 EXCLUSIVE	104
	1000W HPS 4-100 EXCLUSIVE	12
	1000W HPS EXCLUSIVE	4
	150 W HPS EXCLUSIVE	522
	150 W HPS SHARED	122
	175 W MV EXCLUSIVE	28
	250 W HPS EXCLUSIVE	650
	250 W HPS SHARED	116
	400 W HPS EXCLUSIVE	982
	400 W HPS SHARED	4
	70 W HPS EXCLUSIVE	2,895
	70 W HPS SHARED	646
		7,408

Service Location	Rate Description	Units
EAST KILDONAN	100 W HPS EXCLUSIVE	334
	100 W HPS SHARED	610
	1000W HPS EXCLUSIVE	18
	150 W HPS EXCLUSIVE	187
	150 W HPS SHARED	162
	175 W MV EXCLUSIVE	5
	250 W HPS EXCLUSIVE	69
	250 W HPS SHARED	6
	400 W HPS EXCLUSIVE	196
	400 W HPS SHARED	4
	70 W HPS EXCLUSIVE	1,009
	70 W HPS SHARED	205
		2,805

Service Location	Rate Description	Units
NORTH KILDONAN	100 W HPS EXCLUSIVE	293
	100 W HPS SHARED	90
	1000W HPS 1-60 EXCLUSIVE	12
	150 W HPS EXCLUSIVE	171
	150 W HPS SHARED	70
	250 W HPS EXCLUSIVE	115
	250 W HPS SHARED	157
	400 W HPS EXCLUSIVE	77
	500 W INCAN FLOOD SHARED	1
	70 W HPS EXCLUSIVE	1,797
	70 W HPS SHARED	134
		2,917

Service Location	Rate Description	Units
ST BONIFACE	100 W HPS EXCLUSIVE	1,156
	100 W HPS SHARED	742
	100 W INCANDESCENT EXCLUSIVE	4
	1000W HPS 1-60 EXCLUSIVE	31
	1000W HPS EXCLUSIVE	36
	150 W HPS EXCLUSIVE	719
	150 W HPS SHARED	162
	175 W MV EXCLUSIVE	5
	175 W MV SHARED	1
	250 W HPS EXCLUSIVE	425
	250 W HPS SHARED	205
	400 W HPS EXCLUSIVE	457
	400 W HPS SHARED	37
	400 W MV FLOOD EXCLUSIVE	8
	70 W HPS EXCLUSIVE	2,451
	70 W HPS SHARED	571
		7,010

Service Location	Rate Description	Units
ST VITAL	100 W HPS EXCLUSIVE	326
	100 W HPS SHARED	542
	1000W HPS 1-60 EXCLUSIVE	78
	1000W HPS EXCLUSIVE	6
	150 W HPS EXCLUSIVE	548
	150 W HPS SHARED	257
	250 W HPS EXCLUSIVE	214
	250 W HPS SHARED	110
	300 W INCANDESCENT EXCLUSIVE	4
	400 W HPS EXCLUSIVE	344
	400 W HPS SHARED	23
	400 W MV EXCLUSIVE	32
	70 W HPS EXCLUSIVE	2,380
	70 W HPS SHARED	1,171
		6,035

Service Location	Rate Description	Units
CHARLESWOOD	100 W HPS EXCLUSIVE	258
	100 W HPS SHARED	40
	150 W HPS EXCLUSIVE	144
	150 W HPS SHARED	274
	175 W MV EXCLUSIVE	26
	250 W HPS EXCLUSIVE	78
	250 W HPS SHARED	80
	400 W HPS EXCLUSIVE	82
	400 W HPS SHARED	4
	70 W HPS EXCLUSIVE	1,072
	70 W HPS SHARED	624
		2,682

Service Location	Rate Description	Units
ST JAMES ASSINIBOIA	100 W HPS EXCLUSIVE	523
	100 W HPS SHARED	675
	1000W HPS 1-60 EXCLUSIVE	8
	150 W HPS EXCLUSIVE	649
	150 W HPS SHARED	419
	175 W MV EXCLUSIVE	6
	250 W HPS EXCLUSIVE	280
	250 W HPS SHARED	222
	400 W HPS EXCLUSIVE	362
	400 W HPS SHARED	20
	70 W HPS 24HR EXCLUSIVE	10
	70 W HPS EXCLUSIVE	3,415
	70 W HPS SHARED	997
		7,586

Service Location	Rate Description	Units
TUXEDO	100 W HPS EXCLUSIVE	68
	100 W HPS SHARED	123
	1000W HPS 1-60 EXCLUSIVE	2
	150 W HPS EXCLUSIVE	325
	150 W HPS SHARED	66
	175 W MV EXCLUSIVE	1
	250 W HPS EXCLUSIVE	138
	250 W HPS SHARED	8
	400 W HPS EXCLUSIVE	160
	70 W HPS EXCLUSIVE	1,029
	70 W HPS SHARED	42
		1,962

Service Location	Rate Description	Units
WEST KILDONAN	100 W HPS EXCLUSIVE	396
	100 W HPS SHARED	419
	1000W HPS EXCLUSIVE	6
	150 W HPS EXCLUSIVE	363
	150 W HPS SHARED	163
	250 W HPS EXCLUSIVE	125
	250 W HPS SHARED	90
	400 W HPS EXCLUSIVE	399
	400 W HPS SHARED	43
	70 W HPS EXCLUSIVE	1,576
	70 W HPS SHARED	347
		3,927

Service Location	Rate Description	Units
TRANSCONA	100 W HPS EXCLUSIVE	414
	100 W HPS SHARED	471
	1000W HPS 2-100 EXCLUSIVE	2
	1000W HPS 4-100 EXCLUSIVE	3
	1000W HPS EXCLUSIVE	25
	150 W HPS EXCLUSIVE	362
	150 W HPS SHARED	68
	250 W HPS EXCLUSIVE	148
	250 W HPS SHARED	52
	400 W HPS 4-100 EXCLUSIVE	60
	400 W HPS EXCLUSIVE	347
	400 W HPS SHARED	8
	70 W HPS EXCLUSIVE	2,318
	70 W HPS SHARED	232
		4,510

Service Location	Rate Description	Units
OLD KILDONAN	100 W HPS EXCLUSIVE	260
	100 W HPS SHARED	9
	150 W HPS EXCLUSIVE	210
	150 W HPS SHARED	3
	175 W MV EXCLUSIVE	2
	250 W HPS EXCLUSIVE	44
	400 W MV SHARED	1
	70 W HPS EXCLUSIVE	1,121
	70 W HPS SHARED	48
		1,698

Service Location	Rate Description	Units
WCD STREETLIGHTS NORTH WEST	100 W HPS EXCLUSIVE	1,705
	100 W HPS SHARED	625
	150 W HPS EXCLUSIVE	522
	150 W HPS SHARED	48
	175 W MV SHARED	101
	250 W HPS EXCLUSIVE	1,892
	250 W HPS SHARED	25
	250 W MV EXCLUSIVE	3
	400 W HPS EXCLUSIVE	210
	400 W HPS SHARED	10
	400 W MV EXCLUSIVE	27
	400 W MV SHARED	23
	70 W HPS EXCLUSIVE	43
	70 W HPS SHARED	1,204
		6,438

Service Location	Rate Description	Units
WCD STREETLIGHTS NORTH EAST	100 W HPS EXCLUSIVE	522
	100 W HPS SHARED	31
	1000W HPS EXCLUSIVE	1
	150 W HPS EXCLUSIVE	116
	150 W HPS SHARED	78
	175 W MV SHARED	34
	250 W HPS EXCLUSIVE	104
	250 W HPS SHARED	58
	400 W HPS EXCLUSIVE	120
	400 W HPS SHARED	6
	400 W MV EXCLUSIVE	-
	400 W MV SHARED	11
	70 W HPS SHARED	420
		1,501

Service Location	Rate Description	Units
WCD STREETLIGHTS WEST CENTRAL	100 W HPS EXCLUSIVE	1,816
	100 W HPS SHARED	590
	100 W INCANDESCENT EXCLUSIVE	85
	100 W INCANDESCENT SHARED	1
	1000W HPS EXCLUSIVE	3
	150 W HPS EXCLUSIVE	487
	150 W HPS SHARED	314
	175 W MV EXCLUSIVE	3
	175 W MV SHARED	33
	20 W COMP FLOR EXCLUSIVE	-
	250 W HPS EXCLUSIVE	1,153
	250 W HPS SHARED	895
	250 W MV EXCLUSIVE	57
	250 W MV SHARED	12
	300 W INCANDESCENT EXCLUSIVE	3
	400 W HPS EXCLUSIVE	1,054
	400 W HPS SHARED	127
	400 W METAL HALIDE EXCLUSIVE	4
	400 W MV EXCLUSIVE	32
	400 W MV SHARED	95
	500 W INCANDESCENT SHARED	1
	70 W HPS EXCLUSIVE	786
	70 W HPS SHARED	1,536
	750 W HPS EXCLUSIVE	33
	750 W HPS SHARED	1
		9,121

Service Location	Rate Description	Units
STITTSVILLE LIGHTING	10 W LED EXCLUSIVE	895
		895

Service Location	Rate Description	Units
WCD STREETLIGHTS SOUTH WEST	100 W HPS EXCLUSIVE	2,393
	100 W HPS SHARED	45
	1000W HPS EXCLUSIVE	17
	150 W HPS EXCLUSIVE	446
	150 W HPS SHARED	252
	175 W MV EXCLUSIVE	16
	175 W MV SHARED	253
	200 W FLORESCENT EXCLUSIVE	-
	250 W HPS EXCLUSIVE	1,173
	250 W HPS SHARED	305
	400 W HPS EXCLUSIVE	265
	400 W HPS SHARED	13
	400 W MV EXCLUSIVE	17
	400 W MV SHARED	3
	70 W HPS EXCLUSIVE	287
	70 W HPS SHARED	1,384
		6,869

ROSSER		1,337
FORT GARRY		7,408
EAST KILDONAN		2,805
NORTH KILDONAN		2,917
ST BONIFACE		7,010
ST VITAL		6,035
CHARLESWOOD		2,682
ST JAMES ASSINIBOIA		7,586
TUXEDO		1,962
WEST KILDONAN		3,927
TRANSCONA		4,510
OLD KILDONAN		1,698
WCD STREETLIGHTS NORTH WEST		6,438
WCD STREETLIGHTS NORTH EAST		1,501
WCD STREETLIGHTS WEST CENTRAL		9,121
STITTSVILLE LIGHTING		895
WCD STREETLIGHTS SOUTH WEST		6,869
		74,701

Section:	Tab 6, Appendix 6.3	Page No.:	21 of 25
Topic:	Area and Roadway Lighting		
Subtopic:	Outdoor Lighting Rate – Tariff no. 2015-80		
Issue:	Basis for the Billing Determinant		

PREAMBLE TO IR (IF ANY):

The City of Winnipeg has been unable to obtain from Manitoba Hydro the count of shared pole luminaires and exclusive pole luminaires that Manitoba Hydro uses in billing the City of Winnipeg under the Outdoor Lighting Rate, nor the basis therefor.

QUESTION:

Please provide a detailed explanation of the original source of the information used by Manitoba Hydro to determine the number of City of Winnipeg luminaires on shared and exclusive poles, including luminaires that were in place prior to Manitoba Hydro acquiring Winnipeg Hydro.

RATIONALE FOR QUESTION:

The count of luminaires is the ARL equivalent of the metered volume used to bill customers. There is no process analogous to certification of meters to provide confidence that the « meter reading » for the City of Winnipeg is correct. The City of Winnipeg wishes to obtain the information necessary to determine what the luminaire count is, what type of luminaire is located at each location and whether it should have confidence in the information relied upon by Manitoba Hydro for billing purposes.

RESPONSE:

At the time of the acquisition of Winnipeg Hydro, electronic files were received from the City of Winnipeg itemizing the lights within the former Winnipeg Hydro service area. Information from those files was used to update customer billing records.

Billing records for Area and Roadway lighting are updated when new lights are installed or removed, or the size or type of light is changed. Each update is recorded by field personnel on an Outdoor Light Connect or Disconnect Report and submitted to centralized staff for update of customer billing records.

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Topic:	Area and Roadway Lighting		
Subtopic:	Outdoor Lighting Rate – Tariff no. 2015-80		
Issue:	Basis for the Billing Determinant		

PREAMBLE TO IR (IF ANY):

The City of Winnipeg has been unable to obtain from Manitoba Hydro the count of shared pole luminaires and exclusive pole luminaires that Manitoba Hydro uses in billing the City of Winnipeg under the Outdoor Lighting Rate, nor the basis therefor.

QUESTION:

Please provide a detailed explanation of the actions undertaken by Manitoba Hydro since its acquisition of Winnipeg Hydro to verify and update the luminaire count and classification (shared and exclusive) that constituted Winnipeg Hydro's records.

RATIONALE FOR QUESTION:

The count of luminaires is the ARL equivalent of the metered volume used to bill customers. There is no process analogous to certification of meters to provide confidence that the « meter reading » for the City of Winnipeg is correct. The City of Winnipeg wishes to obtain the information necessary to determine what the luminaire count is, what type of luminaire is located at each location and whether it should have confidence in the information relied upon by Manitoba Hydro for billing purposes.

RESPONSE:

Over the past several years, Manitoba Hydro has undertaken an intensive distribution asset data capture program that has surveyed all the poles and street light standards across the province. This provided an accurate count of all poles and street light standards in Manitoba.

During the upcoming LED conversion, Manitoba Hydro plans on verifying: the number of fixtures replaced, the nominal wattage of the new light, and the exact location of each light.

Area and Roadway lighting information, including luminaire counts and classifications (shared and exclusive) has been recorded in Manitoba Hydro's GIS (geographic information system) mapping software.

In addition to the verification which will take place during the LED conversion, future efforts will be directed toward reconciliation of the classification of lights between the GIS and customer billing records.

Section:	Tab 6, Appendix 6.3	Page No.:	21 of 25
Topic:	Area and Roadway Lighting		
Subtopic:	Bill Impacts		
Issue:	Outdoor Lighting Rates – Tariff 2015-80		

PREAMBLE TO IR (IF ANY):

Manitoba Hydro is seeking different area and roadway lighting rates for the categories in this tariff.

QUESTION:

Please explain how Manitoba Hydro arrived at these proposed rates and provide the detailed calculations.

RATIONALE FOR QUESTION:

The methodology used to establish these rates has never been explained to the City of Winnipeg nor tested by the Public Utilities Board. It is also necessary to ensure the consistency of these rates with the new rates being established for the LED luminaires.

RESPONSE:

The proposed rates shown for Tariff 2015-80 (with the exception of the LED rates), Tariff 2015-81 and Tariff 2015-83 were derived by multiplying the existing rates by the proposed 3.95% rate increase and rounding the new rate to two decimal places, as shown in the following table.

Please refer to Manitoba Hydro's response to PUB/MH I-49a for an explanation as to how the LED rates were derived.

	May 2014 Rates	+	3.95% increase	=	May 2015 Rates
OUTDOOR LIGHTING					
SHARED					
100 INC	\$4.57		\$0.18		\$4.75
500 INC	\$11.96		\$0.47		\$12.43
175 MV	\$8.84		\$0.35		\$9.19
250 MV	\$10.12		\$0.40		\$10.52
400 MV	\$13.88		\$0.55		\$14.43
70 HPS	\$7.60		\$0.30		\$7.90
100 HPS	\$7.89		\$0.31		\$8.20
150 HPS	\$9.67		\$0.38		\$10.05
250 HPS	\$12.32		\$0.49		\$12.81
400 HPS	\$14.14		\$0.56		\$14.70
750 HPS	\$21.91		\$0.87		\$22.78
EXCLUSIVE					
200 FLORESC.	\$9.93		\$0.39		\$10.32
20 COMPACT FL.	\$2.13		\$0.08		\$2.21
100 INC	\$9.93		\$0.39		\$10.32
150 INC	\$9.93		\$0.39		\$10.32
300 INC	\$14.16		\$0.56		\$14.72
500 INC	\$19.51		\$0.77		\$20.28
400 MH	\$23.77		\$0.94		\$24.71
175 MV	\$14.16		\$0.56		\$14.72
250 MV	\$16.03		\$0.63		\$16.66
400 MV	\$19.17		\$0.76		\$19.93
70 HPS	\$12.48		\$0.49		\$12.97
70 HPS 24	\$14.03		\$0.55		\$14.58
100 HPS	\$13.16		\$0.52		\$13.68
150 HPS	\$14.86		\$0.59		\$15.45
250 HPS	\$17.13		\$0.68		\$17.81
400 HPS	\$23.77		\$0.94		\$24.71
400 HPS 2-100	\$36.75		\$1.45		\$38.20
400 HPS 4-100	\$26.99		\$1.07		\$28.06
750 HPS	\$34.76		\$1.37		\$36.13
1000 HPS	\$40.32		\$1.59		\$41.91
1000 HPS 1-60	\$41.25		\$1.63		\$42.88
1000 HPS 2-100	\$49.44		\$1.95		\$51.39
1000 HPS 4-100	\$42.40		\$1.67		\$44.07

	May 2014 Rates	+	3.95% increase	=	May 2015 Rates
FLOOD					
LIGHTING					
SHARED					
100 INCF	\$5.18		\$0.20		\$5.38
150 INCF	\$5.18		\$0.20		\$5.38
300 INCF	\$9.44		\$0.37		\$9.81
500 INCF	\$12.71		\$0.50		\$13.21
250 MVF	\$11.70		\$0.46		\$12.16
400 MVF	\$14.30		\$0.56		\$14.86
500 QF	\$19.65		\$0.78		\$20.43
EXCLUSIVE					
150 INCF	\$10.74		\$0.42		\$11.16
500 INCF	\$20.80		\$0.82		\$21.62
250 MVF	\$17.11		\$0.68		\$17.79
400 MVF	\$19.20		\$0.76		\$19.96
500 QF	\$24.91		\$0.98		\$25.89
SENTINELS					
FLAT RATE					
175 W MW	\$10.10		\$0.00		\$10.50
400 W MW	\$16.71		\$0.00		\$17.37
100 W HPS	\$9.78		\$0.00		\$10.17
150 W HPS	\$12.96		\$0.00		\$13.47
RENTAL					
175 W MW	\$6.74		\$0.00		\$7.01
400 W MW	\$9.21		\$0.00		\$9.57
100 W HPS	\$6.75		\$0.00		\$7.01
150 W HPS	\$9.21		\$0.00		\$9.57

Section:	Tab 6, Appendix 6.3	Page No.:	21 of 25
Topic:	Area and Roadway Lighting		
Subtopic:	Bill Impacts		
Issue:	Outdoor Lighting Conversion to LEDs		

PREAMBLE TO IR (IF ANY):

The City of Winnipeg is unaware of Manitoba Hydro's plan for the replacement of F, CF, I, MH, MV and HPS luminaires with LED luminaires.

QUESTION:

Please provide Manitoba Hydro's detailed plan for the replacement of F, CF, I, MH, MV and HPS luminaires with LED luminaires.

RATIONALE FOR QUESTION:

The change to LED luminaires will have an impact on the City's billing.

RESPONSE:

As a service to cities, towns and municipalities, Manitoba Hydro provides, installs and maintains area and roadway lighting for public areas and roads for which the public authority pays a monthly tariff.

In March of 2014, based upon successful pilot installations of LED lighting located across the province, including Churchill, Thompson, Brandon and Winnipeg (with installations on Overdale Street, Bruce Avenue, Collegiate Street, Farnham Road, and Regent Avenue), Manitoba Hydro officially launched the LED Roadway Lighting Conversion Program.

With the recent awards of the material and labour contracts for the conversions, Manitoba Hydro will be developing the detailed implementation plan for the Province with conversions beginning concurrently within and outside of the City of Winnipeg. Under this program, Manitoba Hydro will convert 130,000 street and lane lights across the Province, primarily

High Pressure Sodium (HPS) but also including a small portion of remaining Incandescent (I), Metal Halide (MH), and Mercury Vapor (MV), to LED over a seven year period. Fluorescent (F) and Compact Fluorescent (CF) lighting have already been converted to LED lighting. LED technology for high-mast lighting, such as that typically located around major intersections (750W and greater HPS), is only now advancing to become a safe viable alternative to HPS lighting. Manitoba Hydro is continuing to monitor these products and will be pursuing demonstration projects using the next generation of high-mast lighting to determine suitability for use under the replacement program.

Prior to awarding the materials contract, the photometry details of the recommended vendor were shared with representatives of the Lighting Systems Branch of the Public Works Department to obtain their approval to ensure the product met City of Winnipeg technical requirements. With the labour contracts now in place, Manitoba Hydro will continue discussions with the Lighting Systems Branch to finalize processes and develop the detailed implementation schedule for the City of Winnipeg including discussion of street by street scheduling to ensure proper traffic management. The LED conversion schedule is expected to generally follow the existing HPS re-lamping schedule for Winnipeg with approximately 80,000 conversions being completed over the next four to five years.

The conversion schedule for lighting outside of the City of Winnipeg is also expected to generally follow the existing HPS re-lamping schedule with adjustments in order to optimize operational efficiencies under a mass replacement.

In addition, all new developments throughout the Province will be supplied with LED lighting.

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Topic:	Area and Roadway Lighting		
Subtopic:	Bill Impacts		
Issue:	Flood Lighting Rate – Tariff no. 2015-81		

PREAMBLE TO IR (IF ANY):

Manitoba Hydro is seeking different area and roadway lighting rates for the categories in this tariff.

QUESTION:

Please explain how Manitoba Hydro arrived at these proposed rates and provide the detailed calculations.

RATIONALE FOR QUESTION:

The methodology used to establish these rates has never been explained to the City of Winnipeg nor tested by the Public Utilities Board. It is also necessary to ensure the consistency of these rates with the new rates being established for the LED luminaires.

RESPONSE:

Please refer to Manitoba Hydro's response to COW/MH-I-2.

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Topic:	Area and Roadway Lighting		
Subtopic:	Bill Impacts		
Issue:	Flood Lighting Conversion to LEDs		

PREAMBLE TO IR (IF ANY):

The City of Winnipeg is unaware of Manitoba Hydro's plan for the replacement of I, MV and Q luminaires with LED luminaires.

QUESTION:

Please provide Manitoba Hydro's detailed plan for the replacement of I, MV and Q luminaires with LED luminaires.

RATIONALE FOR QUESTION:

The change to LED luminaires will have an impact on the City's billing.

RESPONSE:

Manitoba Hydro continues to be responsible for maintaining floodlighting services installed prior to April 1, 1976. These floodlights are primarily Incandescent (I) and represent less than 0.01% of all lights to be replaced. These lights will be replaced during the later stages of the program once a suitable LED replacement has been identified.

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Topic:	Area and Roadway Lighting		
Subtopic:	Bill Impacts		
Issue:	Sentinel Lighting Rates – Tariff no. 2015-83		

PREAMBLE TO IR (IF ANY):

Manitoba Hydro is seeking different area and roadway lighting rates for the categories in this tariff.

QUESTION:

Please explain how Manitoba Hydro arrived at these proposed rates and provide the detailed calculations.

RATIONALE FOR QUESTION:

The methodology used to establish these rates has never been explained to the City of Winnipeg nor tested by the Public Utilities Board. It is also necessary to ensure the consistency of these rates with the new rates established for the LED luminaires.

RESPONSE:

Please refer to Manitoba Hydro's response to COW/MH-I-2.

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Topic:	Area and Roadway Lighting		
Subtopic:	Bill Impacts		
Issue:	Sentinel Lighting Conversion to LEDs		

PREAMBLE TO IR (IF ANY):

The City of Winnipeg is unaware of Manitoba Hydro's plan for the replacement of HPS and MV luminaires with LED luminaires

QUESTION:

Please provide Manitoba Hydro's detailed plan for the replacement of HPS and MV luminaires with LED luminaires.

RATIONALE FOR QUESTION:

The change to LED luminaires will have an impact on the City's billing.

RESPONSE:

As roadway lighting represents the largest portion Manitoba Hydro's total inventory of lighting, the LED Roadway Lighting Conversion Program is initially focused on converting roadway lighting. Manitoba Hydro is currently investigating the technical requirements and options for LED Sentinel Lights which could be made available for new installations as well as for replacement as existing sentinel lights reach end of life.