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Niagara Mohawk Power Corporation d/b/a National Grid Calculation of Pole Attachment Fee Pursuant to FCC Formula Based Upon Year Ended December 31, 2018 Financial Information

	Net Investment per Pole	Actual FERC	Source
(1)	Total Gross Investment in Pole Plant	\$1,191,822,882	Page 3, Line (1)
(2)	Accumulated Depreciation (Pole)	\$405,755,036	Page 2, Line (9)
(3)	Accumulated Deferred Taxes (Poles)	\$188,374,189	Page 2, Line (11)
(4)	Net Investment in Pole Plant	\$597,693,657	Line (1) - Line (2) - Line (3)
(5)	Net Investment in Appurtenance	\$89,654,049	Line (4) x 15% (FCC presumption)
	Net Investment in Bare Pole		Line (4) - Line (5)
(6) (7)		\$508,039,608	
(7)	Number of Pole Equivalents	979,498	Page 4, Line (7)
(8)	Net Investment per Bare Pole	\$518.67	Line $(6) \div$ Line (7) , rounded to 2 decimal places
	Carrying Charges		
	Administrative		
(9)	Administrative Expense	\$327,801,568	Page 3, Line (8)
(10)	Electric Plant in Service	\$9,806,610,376	Page 3, Line (18)
(11)	Depreciation Reserve for Electric Plant in Service	\$2,980,582,307	Page 3, Line (19)
	Accumulated Deferred Income Taxes		Page 3, Sum of Lines (27) thru (29)
(12)		\$1,524,217,027	•
(13)	Net Electric Plant in Service	\$5,301,811,042	Line (10) - Line (11) - Line (12)
(14)	Administrative Carrying Charge	6.18%	Line $(9) \div$ Line (13)
	Tax		
(15)	Normalized Tax Expense	\$352,732,957	Page 3, Sum of Lines (10) thru (15)
(16)	Total Plant in Service	\$12,564,596,482	Page 3, Line (16)
(17)	Depreciation Reserve for Total Plant in Service	\$3,964,093,617	Page 3, Line (17)
	Accumulated Deferred Income Taxes		Page 3, Sum of Lines (24) thru (26)
(18)		\$1,925,884,477	Line (16) - Line (17) - Line (18)
(19)	Net Plant in Service	\$6,674,618,388	
(20)	Tax Carrying Charge	5.28%	Line $(15) \div$ Line (19)
	Maintenance		
(21)	Maintenance of Overhead Lines Expense	\$186,380,412	Page 3, Line (9)
(22)	Net Investment in Overhead Structures	\$1,518,014,969	Page 2, Line (6)
(23)	Maintenance Carrying Charge	12.28%	Line $(21) \div$ Line (22)
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	Depreciation		
(24)	Annual Depreciation for Poles	1.85%	Page 3, Line (6)
(25)	Gross Investment in Pole Plant	\$1,191,822,882	Line (1)
(26)	Net Investment in Pole Plant	\$597,693,657	Page 2, Line (12)
(27)	Gross / Net Adjustment	199.40%	Line (25) ÷ Line (26)
(28)	Depreciation Carrying Charge	3.69%	Line (24) x Line (27)
	Return		
(29)	Rate of Return	11.25%	FCC Cable Formula
(30)	Total Carrying Charge	38.68%	Line (14) + Line (20) + Line (23) + Line (28) + Line (29)
	Allocation of Usable Space		
(31)	Assumed Cable Attachment Space (in feet)	1	47 CFR Ch. I, Subpart J, §1.1418
(32)	Usable Space (in feet)	13.5	47 CFR Ch. I, Subpart J, §1.1404(g)(1)(xi) & §1.1418
(33)	Usage Factor	7.41%	Line $(31) \div$ Line (32)
	Pole Attachment Rate		
(34)	Net Investment per Bare Pole	\$518.67	Line (8)
(35)	Total Carrying Charge	38.68%	Line (30)
(36)	Usage Factor	7.41%	Line (33)
(37)	Pole Attachment Fee for Cable Attachments	\$14.86	Line (34) x Line (35) x Line (36), truncated after 2 decimal places

Niagara Mohawk Power Corporation d/b/a National Grid Calculation of Pole Attachment Fee Pursuant to FCC Formula Based Upon Year Ended December 31, 2018 Financial Information

\$3,026,977,038 = 48% x \$2,131,907,250 = \$1,030,531,630 Page 3, Line (20) = 31% x \$1,524,217,027 = \$478,430,439 Page 3, Sum of Lines (27) thru (29)
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ne (5) \$1,518,014,969
\$1,191,822,882
= 19%
x \$2,131,907,250 = \$405,755,036 Page 3, Line (20)
= 39%
x \$478,430,439 = \$188,374,189 Line (5)

Niagara Mohawk Power Corporation d/b/a National Grid Calculation of Pole Attachment Fee Pursuant to FCC Formula 2018 Data

(1) (2) (3) (4)	Components of Overhead Structures Account 364 - Poles Towers and Fixtures Account 365 - Overhead Conductors and Devices Account 369 - Services Sum	\$1,191,822,882 \$1,326,285,067 <u>\$508,869,089</u> \$3,026,977,038	Source Form 1, Page 207, Line 66, Column (g) Form 1, Page 207, Line 67, Column (g) Form 1, Page 207, Line 71, Column (g)
(5)	Number of Poles	979,498	Page 4, Line (7)
(6) (7)	Depreciation Rate (Acct. 364) Rate of Return	1.85% 8.02%	Case 17-E-0238 -Depreciation Rate effective 4/1/2018 Case 17-E-0238: 2017 NMPC Rate Case Pre-Tax WAC
(8)	Total Administrative & General Expense Account 593 - Maintenance of OH Lines	\$327,801,568 \$186,380,412	Form 1, Page 323, Line 205, Column (b) Form 1, Page 322, Line 156, Column (b)
(9) (10)	Account 395 - Mamenance of OH Lines Account 408.1 - Taxes other than income taxes, utility operating income	\$286,281,176	Form 1, Page 122, Line 136, Column (b) Form 1, Page 114, Line 14, Column (c)
(10)	Account 409.1 - Fades other than income taxes, utility operating income	\$42,480,745	Form 1, Page 114, Line 15, Column (c)
(11)	Account 409.1 - Other	\$12,105,885	Form 1, Page 114, Line 16, Column (c)
(12)	Account 410.1 - Provisions for deferred income taxes, utility opating income	\$11,865,151	Form 1, Page 114, Line 17, Column (c)
(14)	Account 411.1 - Provision for deferred income taxes - Credit, utility operating income	\$0	Form 1, Page 114, Line 18, Column (c)
(15)	Account 411.4 - Investment tax credit adjustments, utility operations	\$0	Form 1, Page 114, Line 19, Column (c)
(16)	Gross Utility Plant	\$12,564,596,482	Form 1, Page 200, Line 8, Column (b)
(17)	Depreciation Reserve	(\$3,964,093,617)	Form 1, Page 200, Line 33, Column (b)
(18)	Gross Electric Plant	\$9,806,610,376	Form 1, Page 200, Line 8, Column (c)
(19)	Depreciation Reserve for Electric Plant	(\$2,980,582,307)	Form 1, Page 200, Line 33, Column (c)
(20)	Depreciation Reserve - Distribution	(\$2,131,907,250)	Form 1, Page 219, Line 26, Column (c)
(21)	Total Distribution Plant	\$6,317,063,612	Form 1, Page 207, Line 77, Column (g)
(22)	Distribution Land & Land Rights	\$55,019,728	Form 1, Page 207, Line 62, Column (g)
(23)	Transmission Land & Land Rights	\$108,036,296	Form 1, Page 207, Line 49, Column (g)
(24)	Accum Deferred Income Taxes - 190	\$736,311,601	Form 1, Page 111, Line 72, Column (d)
(25)	Accum Deferred Income Taxes - 281/282/283	(\$1,841,681,335)	Page 275, Line 9, Column (k), less Page 277, Line 19, Column (k) Form 1, Page 278, Line 1, Column (f) plus Page 278-
(26)	FAS 109	(\$820,514,743)	A, Line 4 Column (f)
(27)	Accum Deferred Income Taxes - 190 E	\$600,616,002	Form 1, Page 234, Line 9, Column (c)
			Form 1, Page 275, Line 2, Column (k) plus Page 277,
(28)	Accum Deferred Income Taxes - 281/282/283 E	(\$1,476,626,382)	Lines 3 through 7
			Form 1, Page 278, Line 1, Column (f) plus Page 278- A, Line 4 Column (f) multiplied by 79% which is the
(29)	FAS 109 E	(\$648,206,647)	electric portion of the total FAS 109E

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Niagara Mohawk 2019 Pole Counts (Poles)

	Description	Jointly <u>Owned</u> (a)	Solely <u>Owned</u> (b)	Total NMPC <u>Number</u> (c)
(1)	Up to 30 ft.	47,957	64,615	112,572
(2)	31-40 ft.	542,496	373,566	916,061
(3)	41-50 ft.	168,139	97,001	265,140
(4)	51-60 ft.	3,351	4,953	8,304
(5)	Above 60 ft.	372	8,656	9,028
(6)	Total	762,315	548,790	1,311,105
(7)	Equivalent Number	of Poles		979,498

Notes:

(7) Column (a), Line (6) x 56.5% pole ownership + Column (b), Line (6) 56.5% from July 10, 1975 General Joint Use Pole Agreement between NMPC and NY Telephone Company

Source: Plant Accounting

Niagara Mohawk Power Corporation d/b /a National Grid 16-M-0330 Attachment 3 Page 5 of 5

Wireless Attachment to Distribution Pole Calculation of Wireless Attachment Fee consistent with PSC Order issued March 14, 2019 CASE 16-M-0330 Based Upon Year Ended December 31, 2018 Financial Information

(A) - Licensor annual carrying charge rate (Wireless)	35.45%	Page 1, (Line (14) + Line(20) + Line(23) + Line (28) + Page 3, Line (7))
(B) - Licensor net pole investment	\$597,693,657	Page 1, Line (4)
(C) - Licensor total number of equivalent poles	979,498	Page 4, Line (7)
(D) - Licensor net cost of bare pole [D = B/C]	\$610.20	
(E) - Licensor net cost of bare pole adjusted for appurtenances not usable $[E = (.85)D]$	\$518.67	Page 1, Line (8)
(F) - Pole Attachment Fee for Wireless Attachments, per foot	\$13.62	(E) * (A) * Page 1, Line 36