

Niagara Mohawk Power Corporation  
d/b/a National Grid  
Calculation of Pole Attachment Fee Pursuant to FCC Formula  
Based Upon Year Ended December 31, 2014 Financial Information

	<u>Net Investment per Pole</u>	Actual FERC	Source
(1)	Total Gross Investment in Pole Plant	\$1,055,747,576	Page 3, Line (1)
(2)	Accumulated Depreciation (Pole)	\$368,503,334	Page 2, Line (9)
(3)	Accumulated Deferred Taxes (Poles)	\$196,983,884	Page 2, Line (11)
(4)	Net Investment in Pole Plant	\$490,260,359	Line (1) - Line (2) - Line (3)
(5)	Net Investment in Appurtenance	\$73,539,054	Line (4) x 15% (FCC presumption)
(6)	Net Investment in Bare Pole	\$416,721,305	Line (4) - Line (5)
(7)	Number of Pole Equivalents	930,180	Page 4, Line (7)
(8)	Net Investment per Bare Pole	\$448.00	Line (6) ÷ Line (7), rounded to 2 decimal places
	<u>Carrying Charges</u>		
	<u>Administrative</u>		
(9)	Administrative Expense	\$392,659,338	Page 3, Line (8)
(10)	Electric Plant in Service	\$8,064,118,654	Page 3, Line (18)
(11)	Depreciation Reserve for Electric Plant in Service	\$2,622,917,268	Page 3, Line (19)
(12)	Accumulated Deferred Income Taxes	\$1,478,234,655	Page 3, Sum of Lines (27) thru (29)
(13)	Net Electric Plant in Service	\$3,962,966,731	Line (10) - Line (11) - Line (12)
(14)	Administrative Carrying Charge	9.91%	Line (9) ÷ Line (13)
	<u>Tax</u>		
(15)	Normalized Tax Expense	\$367,317,233	Page 3, Sum of Lines (10) thru (15)
(16)	Total Plant in Service	\$10,473,123,443	Page 3, Line (16)
(17)	Depreciation Reserve for Total Plant in Service	\$3,547,739,372	Page 3, Line (17)
(18)	Accumulated Deferred Income Taxes	\$1,833,941,561	Page 3, Sum of Lines (24) thru (26)
(19)	Net Plant in Service	\$5,091,442,510	Line (16) - Line (17) - Line (18)
(20)	Tax Carrying Charge	7.21%	Line (15) ÷ Line (19)
	<u>Maintenance</u>		
(21)	Maintenance of Overhead Lines Expense	\$129,048,024	Page 3, Line (9)
(22)	Net Investment in Overhead Structures	\$1,233,409,986	Page 2, Line (6)
(23)	Maintenance Carrying Charge	10.46%	Line (21) ÷ Line (22)
	<u>Depreciation</u>		
(24)	Annual Depreciation for Poles	1.62%	Page 3, Line (6)
(25)	Gross Investment in Pole Plant	\$1,055,747,576	Line (1)
(26)	Net Investment in Pole Plant	\$490,260,359	Page 2, Line (12)
(27)	Gross / Net Adjustment	215.34%	Line (25) ÷ Line (26)
(28)	Depreciation Carrying Charge	3.49%	Line (24) x Line (27)
	<u>Return</u>		
(29)	Rate of Return	11.25%	Page 3, Line (7)
(30)	Total Carrying Charge	42.32%	Line (14) + Line (20) + Line (23) + Line (28) + Line (29)
	<u>Allocation of Usable Space</u>		
(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) ÷ Line (32)
	<u>Pole Attachment Rate</u>		
(34)	Net Investment per Bare Pole	\$448.00	Line (8)
(35)	Total Carrying Charge	42.32%	Line (30)
(36)	Usage Factor	7.41%	Line (33)
(37)	Pole Attachment Fee for Cable Attachments	<b>\$14.04</b>	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, 2014 Financial Information

**Net Investment in Overhead Structures**

(1) Gross Investment in FERC Accounts 364, 365, 369 Page 3, Line (4) \$2,656,077,693

Depreciation Reserve Associated with Overhead Structures:

*Percent of Distribution Plant Associated with Overhead Structures:*

(2) 
$$\frac{\text{FERC Accounts 364, 365, 369}}{\text{Total Electric Distribution Plant (Excl Land \& Land Rights)}} = \frac{\text{Page 3, Line (4)}}{\text{Page 3, Lines (21) - (22)}} = \frac{\$2,656,077,693}{\$5,297,147,878} = 50.14\%$$

*Amount of Accumulated Depreciation Associated with Overhead Structures:*

(3) 

Percent of Distribution Plant Assoc with Overhead Structures	x	Depreciation Reserve - Distribution	=	50.14% Line (2)	x	\$1,848,942,585 Page 3, Line (20)	=	\$927,090,440
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Accumulated Deferred Income Taxes Associated with Overhead Structures:

*Percent of Electric Plant Associated with Overhead Structures:*

(4) 
$$\frac{\text{FERC Accounts 364, 365, 369}}{\text{Total Electric Plant (Excl Land \& Land Rights)}} = \frac{\text{Page 3, Line (4)}}{\text{Page 3, Lines (18) - (22) - (23)}} = \frac{\$2,656,077,693}{\$7,922,692,077} = 33.52\%$$

*Amount of Accumulated Deferred Income Taxes Associated with Overhead Structures:*

(5) 

Percent of Electric Plant Assoc with Overhead Structures	x	Accumulated Deferred Income Taxes (excl FAS 109)	=	33.52% Line (4)	x	\$1,478,234,655 Page 3, Sum of Lines (27) thru (29)	=	\$495,577,268
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(6) Net Investment in Overhead Structures Line (1) - Line (3) - Line (5) \$1,233,409,986

**Net Investment in Pole Plant**

(7) Gross Investment in FERC Account 364 Page 3, Line (1) \$1,055,747,576

Depreciation Reserve Associated with Pole Plant:

*Percent of Distribution Plant Associated with Pole Plant:*

(8) 
$$\frac{\text{FERC Account 364}}{\text{Total Distribution Plant (Excl Land \& Land Rights)}} = \frac{\text{Page 3, Line (1)}}{\text{Page 3, Lines (21) - (22)}} = \frac{\$1,055,747,576}{\$5,297,147,878} = 19.93\%$$

*Amount of Accumulated Depreciation Associated with Pole Plant:*

(9) 

Percent of Distribution Plant Assoc with Poles	x	Depreciation Reserve - Distribution	=	19.93% Line (8)	x	\$1,848,942,585 Page 3, Line (20)	=	\$368,503,334
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Accumulated Deferred Income Taxes Associated with Pole Plant:

*Percent of Overhead Structures Associated with Pole Plant:*

(10) 
$$\frac{\text{FERC Account 364}}{\text{FERC Accounts 364, 365, 369}} = \frac{\text{Page 3, Line (1)}}{\text{Page 3, Line (4)}} = \frac{\$1,055,747,576}{\$2,656,077,693} = 39.75\%$$

*Amount of Overhead Structures Deferred Income Taxes Associated with Pole Plant:*

(11) 

Percent of Overhead Structures Assoc with Pole Plant	x	Accumulated Deferred Income Taxes (excl FAS 109) Allocated to Overhead Structures	=	39.75% Line (10)	x	\$495,577,268 Line (5)	=	\$196,983,884
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(12) Net Investment in Pole Plant Line (7) - Line (9) - Line (11) \$490,260,359

Niagara Mohawk Power Corporation  
d/b/a National Grid  
xxx xx-ss  
Exhibit \_\_\_\_  
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Niagara Mohawk Power Corporation  
d/b/a National Grid  
Calculation of Pole Attachment Fee Pursuant to FCC Formula  
[2014 Data](#)

<u>Components of Overhead Structures</u>		Source	NIMO	OTH	Total
(1)	Account 364	\$1,055,747,576 Form 1, Page 207, Line 64, Column (g)	\$1,055,747,576	\$0	\$1,055,747,576
(2)	Account 365	\$1,138,553,951 Form 1, Page 207, Line 65, Column (g)	\$1,138,553,951	\$0	\$1,138,553,951
(3)	Account 369	\$461,776,166 Form 1, Page 207, Line 69, Column (g)	\$461,776,166	\$0	\$461,776,166
(4)	Sum	\$2,656,077,693			
(5)	Number of Poles	930,180 Page 4, Line (7)	930,180		930,180
(6)	Depreciation Rate (Acct. 364)	1.62% Case 10-E-0050 -Depreciation Rate effective 1/1/11	Confirmed by Joan McDowell e-mail 12/9		Verified via e-mail 12/9
(7)	Rate of Return	11.25% FCC default rate			
(8)	Total Administrative & General Expense	\$392,659,338 Form 1, Page 323, Line 197, Column (b)	\$392,659,338	\$0	\$392,659,338
(9)	Account 593, Maintenance of OH Lines	\$129,048,024 Form 1, Page 322, Line 149, Column (b)	\$129,048,024	\$0	\$129,048,024
(10)	Account 408.1	\$253,612,153 Form 1, Page 114, Line 14, Column (c)	\$253,612,153	\$0	\$253,612,153
(11)	Account 409.1 - Federal	\$75,729,093 Form 1, Page 114, Line 15, Column (c)	\$75,729,093	\$0	\$75,729,093
(12)	Account 409.1 - Other	\$19,642,673 Form 1, Page 114, Line 16, Column (c)	\$19,642,673	\$0	\$19,642,673
(13)	Account 410.1	\$18,333,314 Form 1, Page 114, Line 17, Column (c)	\$25,998,513	\$0	\$25,998,513
(14)	Account 411.1	\$0 Form 1, Page 114, Line 18, Column (c)	\$0	\$0	\$0
(15)	Account 411.4	\$0 Form 1, Page 114, Line 19, Column (c)	\$0	\$0	\$0
					\$374,982,432
(16)	Gross Utility Plant	\$10,473,123,443 Form 1, Page 200, Line 8, Column (b)	\$10,473,123,443	\$0	\$10,473,123,443 incl CWIP
(17)	Depreciation Reserve	(\$3,547,739,372) Form 1, Page 200, Line 33, Column (b)	(\$3,547,739,372)	\$0	(\$3,547,739,372)
(18)	Gross Electric Plant	\$8,064,118,654 Form 1, Page 200, Line 8, Column (c)	\$8,064,118,654	\$0	\$8,064,118,654
(19)	Depreciation Reserve for Electric Plant	(\$2,622,917,268) Form 1, Page 200, Line 33, Column (c)	(\$2,622,917,268)	\$0	(\$2,622,917,268)
(20)	Depreciation Reserve - Distribution	(\$1,848,942,585) Form 1, Page 219, Line 26, Column (c)	(\$1,848,942,585)	\$0	(\$1,848,942,585)
(21)	Total Distribution Plant	\$5,339,295,234 Form 1, Page 207, Line 75, Column (g)	\$5,339,295,234	\$0	\$5,339,295,234
(22)	Distribution Land & Land Rights	\$42,147,356 Form 1, Page 207, Line 60, Column (g)	\$42,147,356	\$0	\$42,147,356
(23)	Transmission Land & Land Rights	\$99,279,221 Form 1, Page 207, Line 48, Column (g)	\$99,279,221	\$0	\$99,279,221
(24)	Accum Deferred Income Taxes - 190	\$649,933,116 Form 1, Page 111, Line 82, Column (e)	\$649,933,116	\$0	\$649,933,116
(25)	Accum Deferred Income Taxes - 281/282/283	(\$2,422,523,515) less Page 277, Line 3, Column (k) Form 1, Page 278, Line 1, Column (f) plus Line 29,	(\$2,422,523,515)	\$0	(\$2,422,523,515)
(26)	FAS 109	(\$61,351,162) Column (f)	(\$61,351,162)	\$0	(\$61,351,162)
(27)	Accum Deferred Income Taxes - 190 E	\$527,707,452 Form 1, Page 234, Line 8, Column (c)	\$527,707,452	\$0	\$527,707,452
(28)	Accum Deferred Income Taxes - 281/282/283 E	(\$1,944,590,945) Form 1, Page 275, Line 2, Column (k) plus Page 277, Lines 4 through 6	(\$1,944,590,945)	\$0	(\$1,944,590,945)
(29)	FAS 109 E	(\$61,351,162) Form 1, Page 278, Line 1, Column (f) plus Line 29, Column (f)	(\$61,351,162)	\$0	(\$61,351,162)

Company 36    Niagara Mohawk  
2014 Pole Counts (Poles)

	<u>Description</u>	Jointly <u>Owned</u> (a)	Solely <u>Owned</u> (b)	Total NMPC <u>Number</u> (c)
(1)	Up to 30 ft.	36,576	62,476	99,052
(2)	31-40 ft.	552,999	372,941	925,940
(3)	41-50 ft.	151,231	71,939	223,170
(4)	51-60 ft.	2,998	1,876	4,874
(5)	Above 60 ft.	329	513	842
(6)	Total	744,133	509,745	1,253,878
(7)	Equivalent Number of Poles			<b>930,180</b>

(7)      Column (a), Line (6) x 56.5% pole ownership + Column (b), Line (6)

Source: Plant Accounting

Niagara Mohawk Power Corporation  
d/b /a National Grid  
xxx xx-ss  
Exhibit \_\_\_\_  
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Wireless Attachment to Distribution Pole  
Calculation of Wireless Attachment Fee consistent with PSC Order issued June 23, 2006 CASE 06-E-0082  
Based Upon Year Ended December 31, 2014 Financial Information

(A) - Licensor annual carrying charge rate	42.32%	Page 1, Line (30)
(B) - Licensor net pole investment	\$490,260,359	Page 1, Line (4)
(C) - Licensor total number of equivalent poles	930,180	Page 4, Line (7)
(D) - Licensor net cost of bare pole [D = B/C]	\$527.06	
(E) - Licensor net cost of bare pole adjusted for appurtenances not usable [E = (.85)D]	\$448.00	Page 1, Line (8)
	existing pole	Replaced pole - excess height required for wireless provider
Pole height (ft) [Page1, Line (32)]	37.5	50 60 70 80 90 100
Total useable space (ft)	13.5	26 36 46 56 66 76
Additional pole space allocated as usable for panels (ft)	5	5 5 5 5 5 5
Usable space allocated to WSP (ft)	7	19.5 29.5 39.5 49.5 59.5 69.5
(F) - % of usable space allocated to WSP	37.84%	62.90% 71.95% 77.45% 81.15% 83.80% 85.80%
Wireless fee = carrying cost x bare pole cost x % of usable space [(A) x (E) x (F)]	\$71.74	\$119.27 \$136.43 \$146.86 \$153.86 \$158.90 \$162.69
Wireless rate for attachment to existing distribution pole (no required pole replacement)	\$71.74	
Wireless rate for attachment to distribution pole with excess height provided for wireless provider	\$146.86	