PUBLIC SERVICE OF NEW HAMPSHIRE 2012 Pole Attachment Rates Calculations using 2010 FERC Form 1 Data

1. ACCUMULATED DEPRECIATION

Accumulated Depreciation (Distribution) x Gross Pole Investment / Gross Plant Investment (Distribution)

	ciation (Account 108) (Poles 1,842,716 / 1,197,253,170		= 62,277,835
357,026,270 x 208, 357,026,270 x 311,	cation (Poles) Related to Ac ,842,716 / 1,197,253,170 ,030,860 / 1,197,253,170 ,219,561 / 1,197,253,170	(Account 364) (Account 365)	62,277,835 + 92,750,799 + 33,166,172 = 188,194,807
2. ACCUMULATED DEFERS	PED TAXES ("ADT")		
		+ 282 + 283 + 190) x [Gr	oss Pole Investment / Gross Inv. In Total Electric Plant]
	= (0 + 286.592.172 + 18	36 517 670 160 102 493 \ v	[208,842,716 / 2,526,645,146]
	- (0 : 200,332,172 : 16	50,517,079 - 100,102,400 / X	[200,042,710 7 2,020,040,140]
	= 25,871,978	·	
B. ADT (Electric)	= Sum Accounts 281 +	282 + 283 + 190	
	= 0 + 286,592,172 + 18	6,517,679 - 160,102,483	
	- 212 007 260		
	= 313,007,368		
C. ADT related to A/C 364, 365, & 369	= (Sum Accounts 364	+ 365 + 369) X [(Sui	m Accounts 281+ 282 + 283 + 190) /Total Electric Plant]
, , , , , , , , , , , , , , , , , , ,	= (208,842,716 + 311,0	30,860 + 111,219,561) x [(0 + 286,592,172 + 186,517,679 - 160,102,483) / 2,526,645,146]
	= 78,181,458		

3. NET POLE INVESTMENT A. Net Pole Investment	= Gross Pole Investment (Account 3	- Accumulated 64) Depreciation (Account 108) (Poles	- Accumulated Deferred Income Taxes s) (Account 190,281-283) (Poles)
	= 208,842,716	- 62,277,835	- 25,871,978
	= 120,692,902		
B. Net Cost of a Bare Pole (Electric)	= 0.85	x Net Pole Investmer Number of Poles	nt
	= 0.85	x 120,692,902	=102,588,967
	0.00	265,071	265,071
	= \$387.02		
	40071102		
Accumulated Depreciation Distribu	tion	= 357,026,2	170 pg 219, col b, row 26
Gross Investment Account 364		= 208,842,7	716 pg 207, col g, row 64
Gross Investment Account 365		= 311,030,8	
Gross Investment Account 369 Gross Plant Investment Distribution		= 111,219,5	
Gross Plant Investment Distribution Account 282 (Electric)	ı	= 1,197,253,1 = 286,592,1	
Account 283 (Electric)		= 186,517,6	· -
Account 190 (Electric)		= (160,102,4	
Gross Inv. In Total Electric Plant		= 2,526,645,1	46 pg 200, col c, row 8
Accumulated Depreciation (Accoun		= 62,277,8	
Accumulated Deferred Income Tax	es (A/C 190,281-283) (Poles)	= 25,871,9	
Net Pole Investment		= 120,692,9 = 265.0	
Number of Poles		= 265,0	71 Plant Accounting

			Tota	Administrative and Gener		
Administrative Element	=	Gross Plant Investment (Electric)		ccumulated Depreciation (Account 108 - Electric)	-	occumulated Deferred Taxes (Electric Plant) (Accounts 190, 281-283)
	=			112,765,246		
	_	2,526,645,146	-	890,944,704	-	313,007,368
		112,765,246				
	=	1,322,693,074			=	8.525%
B. MAINTENANCE ELI	EMENT					
				Account 593		
Maintenance Element	=	Pole Investment in Accounts 364, 365, & 369	Dep -	precation (Poles) Related to Accounts 364, 365, & 369	-	Accumulated Deferred Income Taxes related to Accounts 364, 365, & 369
				25,006,174		
	=	631,093,137	-	188,194,807	-	78,181,458
	=	25,006,174 364,716,872			=	6.856%
0 DEDDEOUTION EL						
C. <u>DEPRECIATION EL</u>	<u>EMENI</u>	Gross Pole Investment		Depreciation Rate		
Depreciation	=	(Account 364)	x	for Gross Pole Investment		
Element		Net Pole Investment				
	=	208,842,716 120,692,902	х	0.0244	=	4.222%
D. TAXES ELEMENT						
Taxes	=	Gross Plant Investment		8.1 + 409.1 + 410.1 + 411 ccumulated Depreciation	4 - 4	11.1 Accumulated Deferred Taxes
Element		(Total Plant)	-	(Account 108)	-	(Plant) (Account 190, 281-283)
	=	2,526,645,146	-	104,900,107 890,944,704	-	313,007,368
	=	<u>104,900,107</u> 1,322,693,074			=	7.931%
E. <u>RETURN ELEMENT</u>						
	=	Applicable Rate of Return	(default = 11.	25%)	=	7.585%
Return Element						
	CHARGE					
Return Element F. TOTAL CARRYING	CHARGE	Administrative	8.525%			
	CHARGE	Administrative Maintenance	6.856%			
	CHARGE	Administrative				
	CHARGE	Administrative Maintenance Depreciation Taxes Return	6.856% 4.222% 7.931% 7.585%			
	CHARGE	Administrative Maintenance Depreciation Taxes	6.856% 4.222% 7.931%			
F. TOTAL CARRYING	CHARGE	Administrative Maintenance Depreciation Taxes Return	6.856% 4.222% 7.931% 7.585% 35.119%	112,765,246		pg 323, col b, row 197
F. TOTAL CARRYING dministrative and General Plant Investment (Electric)		Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146		pg 200, col c, row 8
F. TOTAL CARRYING	08 - Electric	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%			
F. TOTAL CARRYING dministrative and General Plant Investment (Electric) ulated Depreciation (Account 10	08 - Electric	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119% = = =	2,526,645,146 890,944,704		pg 200, col c, row 8 pg 219, col c, row 29
dministrative and General Plant Investment (Electric) Ulated Depreciation (Account 10 Ulated Deferred Taxes (Electric ts 593 Pole Investment Account 364	08 - Electric	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64
dministrative and General Plant Investment (Electric) ulated Depreciation (Account 10 ulated Deferred Taxes (Electric t 593 Pole Investment Account 364 Pole Investment Account 365	08 - Electric	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716 311,030,860		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64 pg 207, col g, row 65
dministrative and General Plant Investment (Electric) ulated Deferred Taxes (Electric t 593 Pole Investment Account 364 Pole Investment Account 365 Pole Investment Account 369	98 - Electric Plant) (A/C	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716 311,030,860 111,219,561		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64 pg 207, col g, row 65 pg 207, col g, row 69
dministrative and General Plant Investment (Electric) ulated Depreciation (Account 10 ulated Deferred Taxes (Electric t 593 Pole Investment Account 364 Pole Investment Account 365)8 - Electric Plant) (A/C	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716 311,030,860		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64 pg 207, col g, row 65 pg 207, col g, row 69 sum Accounts 364, 365, 369, pg 207, col g
dministrative and General Plant Investment (Electric) Ulated Depreciation (Account 10 Ulated Deferred Taxes (Electric at 593 Pole Investment Account 364 Pole Investment Account 369 Pole Investment Account 369 Vestment in Accounts 364, 365, Ulated Deprecation (Poles) Relaulated Deferred Taxes related to	08 - Electric Plant) (A/C & 369 kted to Acco	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716 311,030,860 111,219,561 631,093,137 188,194,807 78,181,458		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64 pg 207, col g, row 65 pg 207, col g, row 69 sum Accounts 364, 365, 369, pg 207, col g see 1.B. Accumulated Depreciation Calct see 2.C. Accumulated Deferred Taxes
dministrative and General Plant Investment (Electric) Ulated Depreciation (Account 10 Ulated Deferred Taxes (Electric ti 593 Pole Investment Account 364 Pole Investment Account 369 Pole Investment Account 369 Vestment in Accounts 364, 365, Ulated Deprecation (Poles) Rela Ulated Deferred Taxes related to		Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716 311,030,860 111,219,561 631,093,137 188,194,807 78,181,458 120,692,902		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64 pg 207, col g, row 65 pg 207, col g, row 69 sum Accounts 364, 365, 369, pg 207, col g see 1.B. Accumulated Deferred Taxes see 3.A. Net Pole Investment
dministrative and General Plant Investment (Electric) ulated Depreciation (Account 10 ulated Deferred Taxes (Electric t 593 Pole Investment Account 365 Pole Investment Fole Investment Interval Interval Investment Interval Interv	8 - Electric Plant) (A/C & 369 sted to Acco o Accounts	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716 311,030,860 111,219,561 631,093,137 188,194,807 78,181,458 120,692,902 2,4400		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64 pg 207, col g, row 65 pg 207, col g, row 69 sum Accounts 364, 365, 369, pg 207, col g see 1.B. Accumulated Depreciation Calcuse 2.C. Accumulated Deferred Taxes see 3.A. Net Pole Investment pg 337.1, col e, row 15
dministrative and General Plant Investment (Electric) ulated Deferred Taxes (Electric ti 593 Pole Investment Account 364 Pole Investment Account 365 Pole Investment Account 369 vestment in Accounts 364, 365, ulated Deprecation (Poles) Relaulated Deferred Taxes related to e Investment iation Rate for Gross Pole Investment iation Rate for Gross Pole Invests 408.1 + 409.1 + 410.1 - 411	8 - Electric Plant) (A/C & 369 sted to Acco o Accounts	Administrative Maintenance Depreciation Taxes Return Carrying Charge	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716 311,030,860 111,219,561 631,093,137 188,194,807 78,181,458 120,692,902 2,4400 104,900,107		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64 pg 207, col g, row 65 pg 207, col g, row 65 sum Accounts 364, 365, 369, pg 207, col g see 1.B. Accumulated Depreciation Calcusee 2.C. Accumulated Deferred Taxes see 3.A. Net Pole Investment pg 337.1, col e, row 15 pg 114, col c, rows 14-19
dministrative and General Plant Investment (Electric) ulated Depreciation (Account 10 ulated Deferred Taxes (Electric t 593 Pole Investment Account 365 Pole Investment Fole Investment Interval Interval Investment Interval Interv	.8 - Electric Plant) (A/C & 369 sted to Accounts strment .1 + 411.4	Administrative Maintenance Depreciation Taxes Return Carrying Charge 190, 281-283)	6.856% 4.222% 7.931% 7.585% 35.119%	2,526,645,146 890,944,704 313,007,368 25,006,174 208,842,716 311,030,860 111,219,561 631,093,137 188,194,807 78,181,458 120,692,902 2,4400		pg 200, col c, row 8 pg 219, col c, row 29 see 2. B. Accumulated Deferred Taxes pg 322, col b, row 149 pg 207, col g, row 64 pg 207, col g, row 65 pg 207, col g, row 69 sum Accounts 364, 365, 369, pg 207, col g see 1.B. Accumulated Depreciation Catcusee 2.C. Accumulated Deferred Taxes see 3.A. Net Pole Investment pg 337.1, col e, row 15

5. TELECOM FORMULA

Maximum Rate	=	Space Factor x Net Cost of a Bare Pole x Carrying Charge Rate	
where	Space Factor (urbanized)	= Space Occupied	
		$= \frac{ \left(\frac{1}{5} \right) + \left(\frac{2/3 \times 24}{5} \right) }{37.5}$	
		= 0.1120	
	Space Factor (nonurbanized)	= \(\begin{pmatrix} \text{Space Occupied} \\ \end{pmatrix} + \(\begin{pmatrix} \text{2/3 x Unusable Space} \\ \text{No. of Attaching Entities} \\ \text{Pole Height} \end{pmatrix} \)	
		$= \frac{ \left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	
		= 0.1689	
Maximum Rate (urbanized)	=	Space Factor x Net Cost of a Bare Pole x Carrying Charge Rate	<u>Jointly Owned</u> =1/2 x Fully Owned
	=	0.1120 x \$387.02 x 35.12% =	\$15.22 \$7.61
Maximum Rate (nonrbanized)	=	Space Factor x Net Cost of a Bare Pole x Carrying Charge Rate	
,	=	0.1689 x \$387.02 x 35.12% =	\$22.96 \$11.48
	Space Occupied Unusable Space Number of Attaching Entities Number of Attaching Entities Pole Height Net Cost of a Bare Pole Carrying Charge Rate	(urbanized) = 5 = 37.5 feet = \$387.02 see	3.B. Net Cost of a Bare Pole 4. Carrying Charge Rate
4 AARI 5 505			
6. CABLE FOR Maximum Rate	= =	Space Factor x Net Cost of a Bare Pole x Carrying Charge Rate	
where	Space Factor	= Space Occupied / Usuable Space	
		= 1 / 13.5 = 0.0741 <u>E</u>	ully Owned Jointly Owned
Maximum Rate	=	0.074 x \$387.02 x 35.119% =	\$10.07 =1/2 × Fully Owned \$5.04
	Space Occupied Usable Space	= 1 foot = 13.5 feet	
	Net Cost of a Bare Pole Carrying Charge Rate	•	3.B. Net Cost of a Bare Pole 4. Carrying Charge Rate

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE ACCOUNT 364 POLES DECEMBER 31, 2010 BALANCES

DESCRIPTION	FULLY OWNED UNITS	JOINTLY OWNED UNITS	TOTAL UNITS
POLE, 0 FOOT FULLY	3	-	3
POLE, LAMINATED COLUMN 56 - 60 FOOT FULLY	22	_	22
POLE, LAMINATED COLUMN 61 - 65 FOOT FULLY	6	_	6
POLE, LAMINATED COLUMN 66 - 70 FOOT FULLY	5		5
POLE, LAMINATED COLUMN 51 - 55 FOOT FULLY	2	_	2
POLE, STEEL 30 FOOT FULLY	13	_	13
POLE, STEEL 35 FOOT FULLY	228	_	228
POLE, STEEL 40 FOOT FULLY	10	_	10
POLE, STEEL 45 FOOT FULLY	2	_	2
POLE, STEEL 55 FOOT FULLY	1	_	1
POLE, STEEL 60 FOOT FULLY	1		1
POLE, STEEL 65 FOOT FULLY	3	-	3
		-	1
POLE, STEEL 70 FOOT FULLY	1	-	
POLE, STEEL 75 FOOT FULLY	7	-	7
POLE, WOOD 10 FOOT JOINT	-	5	5
POLE, WOOD 15 FOOT FULLY	30	-	30
POLE, WOOD 25 FOOT FULLY	10,705	-	10,705
POLE, WOOD 25 FOOT JOINT	-	11,279	11,279
POLE, WOOD 30 FOOT FULLY	14,361	-	14,361
POLE, WOOD 30 FOOT JOINT	-	43,569	43,569
POLE, WOOD 35 FOOT FULLY	27,890	-	27,890
POLE, WOOD 35 FOOT JOINT	-	119,495	119,495
POLE, WOOD 40 FOOT FULLY	25,668	-	25,668
POLE, WOOD 40 FOOT JOINT	-	139,095	139,095
POLE, WOOD 45 FOOT FULLY	8,724	-	8,724
POLE, WOOD 45 FOOT JOINT	-	27,264	27,264
POLE, WOOD 50 FOOT FULLY	2,844	-	2,844
POLE, WOOD 50 FOOT JOINT	_	2,809	2,809
POLE, WOOD 55 FOOT FULLY	1,263	-	1,263
POLE, WOOD 55 FOOT JOINT	-	426	426
POLE, WOOD 60 FOOT FULLY	680	=	680
POLE, WOOD 60 FOOT JOINT	-	58	58
POLE, WOOD 65 FOOT FULLY	307	-	307
POLE, WOOD 65 FOOT JOINT	-	32	32
POLE, WOOD 70 FOOT FULLY	127	-	127
POLE, WOOD 70 FOOT JOINT	-	13	13
POLE, WOOD 75 FOOT FULLY	86	-	86
POLE, WOOD 75 FOOT JOINT	00	1	1
POLE, WOOD 80 FOOT FULLY	27	3	27
POLE, WOOD 85 FOOT FULLY		-	
•	13	-	13
POLE, WOOD 90 FOOT FULLY	9	-	9
POLE, WOOD 95 FOOT FULLY	6	-	6
POLE, WOOD 100 FOOT FULLY	4		4
SUBTOTAL	93,048	344,046	437,094
TOTAL EQUIVALENT POLES	93,048	172,023	265,071