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Item No.	Make-Ready Activity Item	R = Rearrangement Rearrangement Costs (Labor Straight Time	 Overtime	T = Transfer Transfer Costs (Labor and Straight Time	 Overtime	I = Installation Installation Costs (Labor and Straight Time	 Overtime	RM = Removal Removal Costs Straight Time	 Overtime	RPL = Replacement = I + RM Replacement Costs (Labor and Straight Time	 Overtime
THIRD PARTY DISTRIBUTION POLE ATTACHMENT MAKE-READY WORK RATE SUMMARY SHEET (dollars)											
Effective: December 14th , 2016											
1	Open Wire Secondary and Rack (each)	$785.63	$1,118.75	$785.63	$1,118.75			$418.46	$595.89		
2	Multiplex Secondary and Bracket (each)	$432.28	$609.72	$418.46	$595.89	$722.24	$954.39	$244.82	$348.63	$806.15	$1,142.11
3	Re-Sag 1/0 Primary (per conductor)	$400.60	$570.46								
3A	Re-Sag 336.4 Primary (per conductor)	$400.60	$570.46								
4	Re-Sag Multiplex Secondary (per span)	$347.21	$494.44								
5	Re-Sag Open - Wire Secondary (per span)	$1,041.59	$1,483.24								
6	Streetlight Bracket and Luminaire (complete assembly)	$380.62	$542.01	$599.03	$845.35	$1,232.73	$1,430.90	$200.31	$285.25	$1,433.09	$1,716.20
7	Streetlight Drip Loop Conduit (each)	$69.16	$97.47			$90.47	$118.77	$66.75	$95.06	$157.22	$213.83
8	Streetlight Bond (each)	$66.75	$95.06	$141.25	$197.86	$95.80	$124.11				
9	Vertical Ground (down ground & connection)					$343.68	$428.60	$133.53	$190.15	$477.21	$618.76
10	Ground Rod and Connections					$343.68	$428.60	$133.53	$190.15	$477.21	$618.76
11	Secondary Drip Loop at Dead Ends (raise/redo)	$296.79	$419.47			$389.13	$511.82				
12	Span Guy	$133.56	$190.19	$133.56	$190.19	$615.26	$785.15	$133.34	$189.88	$748.52	$974.93
12A	Span Guy Bonding					$159.38	$206.57	$111.29	$158.48	$270.67	$365.05
12B	Jumper Johnny Ball and Bond Guy					$265.98	$345.25				
13	Down Guy	$200.29	$285.21	$200.29	$285.21	$459.09	$572.34	$133.53	$190.15	$592.63	$762.49
14	Single Crossarm 5kV & 15kV (Total Single Phase Assembly including pins, glass, braces & lags) (each)			$696.58	$991.94	$676.86	$852.39	$307.11	$437.33	$983.94	$1,289.68
15	Double Crossarm 5kV & 15 kV (Total Single Phase Assembly including pins, glass, braces & lags) (each)			$1,295.28	$1,844.51	$1,407.47	$1,780.24	$472.48	$672.82	$1,880.14	$2,453.26
16	Armless Candlestick (Single Phase Assembly) (each)			$347.16	$494.36	$489.26	$577.96	$137.94	$196.43	$560.44	$707.63
17	Single Alley Arm 5kV & 15kV (Total Single Phase Assembly including pins, glass, braces & lags) (each)			$1,264.14	$1,800.16	$1,434.84	$1,810.43	$482.92	$687.69	$1,917.60	$2,497.96
18	Double Alley Arm 5kV & 15 kV (Total Single Phase Assembly including pins, glass, braces & lags) (each)			$2,178.84	$3,102.70	$2,524.19	$3,162.12	$845.74	$1,204.35	$3,369.86	$4,366.38
19	Vertical Dead-end (including glass, shoe, attachment, loop) (each)			$436.21	$621.17	$428.78	$557.12	$267.04	$380.27	$695.83	$937.40
20	Pole Top or Side Pin (each)			$151.31	$215.47	$195.85	$235.48	$57.85	$82.38	$253.71	$317.86
21	Spacer Cable Tanget Bracket 5/15KV (each)			$398.26	$567.12	$558.64	$667.37	$220.74	$314.33	$779.36	$981.68
22	Spacer Cable Deadend Framing 5/15KV (each)			$4,072.91	$5,799.90	$4,471.04	$5,653.44	$2,241.76	$3,192.30	$6,713.03	$8,845.98
23	Lashed Cable Tangent Bracket 5/15KV (each)			$469.97	$669.25	$500.35	$638.01	$174.21	$248.08	$674.56	$886.08
24	Lashed Cable Deadend Framing 5/15KV (each)			$756.72	$1,077.58	$832.72	$1,049.77	$511.89	$728.94	$1,344.65	$1,778.76
25	Triplex/Neuttral Bracket	$100.16	$142.63	$100.16	$142.63	$100.54	$128.84	$66.75	$95.06	$167.29	$223.90
26	3 Wire Secondary Bracket	$184.71	$263.04	$184.71	$263.04	$246.02	$313.95	$84.56	$120.41	$330.61	$434.40
27	Cutout 5 kV &15 Kv (complete assembly) (each)	$605.38	$862.07	$605.38	$862.07	$648.39	$801.26	$338.23	$481.64	$986.57	$1,282.85
28	Disconnect Switch 5 kV &15kV (complete 3 Phase assembly)			$4,117.26	$5,863.05	$5,196.71	$6,339.50	$1,872.33	$2,666.23	$7,069.37	$9,006.06
29	Arrester 5 kV & 15kV (each) (complete assembly)	$471.84	$671.92	$896.67	$1,238.29	$737.62	$922.57	$369.32	$369.32	$1,107.01	$1,448.59
30	Conventional Transformer (through 50 kVA)	$718.85	$1,023.65	$1,918.98	$2,689.97	$1,850.92	$2,330.72	$1,173.58	$1,671.19	$3,024.10	$4,001.52
30A	CSP Transformer (Remove Only)							$448.06	$638.04		
31	Three Phase Transformer Bank (Up To 50 kVA)	$3,978.98	$5,666.15	$7,152.60	$10,142.73	$6,824.36	$8,578.53	$3,018.29	$4,298.10	$9,842.71	$12,876.69
32	Single Phase Capacitor	$896.67	$1,276.87	$3,612.65	$5,110.79	$3,340.44	$4,276.36	$1,512.96	$2,154.49	$4,853.15	$6,430.59
33	Three Phase Capacitor	$1,213.04	$1,727.40	$4,590.79	$6,503.68	$4,188.54	$5,250.36	$2,042.82	$2,909.02	$6,231.03	$7,360.16

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September 2016

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THIRD PARTY DISTRIBUTION POLE ATTACHMENT MAKE-READY WORK RATE SUMMARY SHEET (dollars)											
Effective: December 14th , 2016											
		R = Rearrangement		T = Transfer		I = Installation		RM = Removal		RPL = Replacement = I + RM	
Item No.	Make-Ready Activity Item	Rearrangement Costs (Labor		Transfer Costs (Labor and		Installation Costs (Labor and		Removal Costs		Replacement Costs (Labor and	
		Straight Time	Overtime	Straight Time	Overtime	Straight Time	Overtime	Straight Time	Overtime	Straight Time	Overtime
34	Single Phase Regulator	$1,210.51	$1,723.78	$3,144.56	$4,444.21	$3,448.37	$4,142.49	$1,279.00	$1,821.31	$4,727.20	$5,963.63
35	Three Phase 2 Regulator Bank (each)	$1,513.13	$2,154.72	$9,881.82	$14,038.20	$7,210.11	$9,506.26	$4,247.62	$6,048.69	$15,219.09	$19,459.92
36	Three Phase 3 Regulator Bank (each)	$1,513.13	$2,154.72	$12,199.09	$17,338.04	$13,928.45	$16,954.31	$5,233.73	$7,452.92	$19,162.19	$24,407.24
37	Primary Tangent (each conductor)	$333.82	$475.36	$333.82	$475.36						
38	Multiplex Secondary (Tangent)	$333.82	$475.36	$333.82	$475.36						
39	Primary Dead-end - Open Wire	$333.82	$475.36	$333.82	$475.36						
40	Secondary Dead-end Multiplex	$333.82	$475.36	$333.82	$475.36						
41	Multiplex/Service (Splice-in add'l wire) (each)	$329.38	$469.05	$329.38	$469.05						
42	UG Service Riser Single Phase (through 350mcm, including Connections)			$934.51	$1,330.76	$1,159.19	$1,489.40	$489.51	$697.07	$1,648.68	$2,186.46
43	UG Service Riser Three Phase (through 350mcm, including Connections)			$934.51	$1,330.76	$1,197.99	$1,528.20	$489.51	$697.07	$1,687.49	$2,225.26
44	UG Service Riser Single Phase (greater than 350mcm, including Connections)			$934.51	$1,330.76	$1,196.91	$1,527.12	$489.51	$697.07	$1,686.41	$2,224.18
45	UG Service Riser Three Phase (greater than 350mcm, including Connections)			$934.51	$1,330.76	$1,436.82	$1,767.03	$489.51	$697.07	$1,926.32	$2,464.09
46	UG Primary 7.62 kV Riser Single Phase (including splicing)			$2,771.59	$3,946.80	$3,602.97	$4,447.05	$1,648.15	$2,346.99	$5,251.65	$6,794.59
46A	UG Primary 13.2 kV Riser Three Phase (including splicing)			$4,227.09	$6,019.45	$6,331.68	$7,768.95	$2,879.52	$4,100.49	$9,211.62	$11,869.87
47	Riser U-Guard (5ft per unit)			$222.58	$316.96	$167.85	$215.04	$111.29	$158.48	$279.14	$373.52
48	Fiber Optic Cable Bracket (each)	$31.14	$44.35	$31.14	$44.35	$64.72	$77.93	$13.34	$19.00	$68.15	$87.02
49	Lightning Arrester			$400.60	$570.46	$323.17	$408.10	$200.29	$285.21	$523.46	$693.31
50	Anchor and Rod					$528.29	$670.11	$167.21	$238.11	$695.52	$908.23
51	Pole Top Extension					$2,789.33	$3,072.44	$389.49	$554.64		
52	Cut Pole Top							$182.51	$259.90		
53	*Pole Replacement - 35'					$1,691.57	$2,123.64	$506.16	$720.78	$2,197.64	$2,844.31
54	*Pole Replacement - 40'					$1,851.88	$2,283.94	$506.16	$720.78	$2,357.94	$3,004.62
55	*Pole Replacement - 45'					$2,011.47	$2,443.54	$506.16	$720.78	$2,517.53	$3,164.21
56	*Pole Replacement - 50'					$2,216.64	$2,648.71	$506.16	$720.78	$2,722.70	$3,369.38
57	*Pole Replacement - 55'					$3,162.77	$3,839.70	$597.58	$850.96	$3,760.32	$4,690.64
58	*Pole Replacement - 60'					$3,762.21	$4,439.14	$597.58	$850.96	$4,359.76	$5,290.08
59	*Pole Replacement - 65'					$4,390.60	$5,067.54	$597.58	$850.96	$4,988.16	$5,918.47
60	*Pole Replacement - 70'					$5,420.14	$6,097.08	$597.58	$850.96	$6,017.70	$6,948.01
61	*Pole Replacement - 75'					$6,289.46	$7,005.65	$533.39	$759.55	$6,822.85	$7,765.20
62	*Pole Replacement - 80'					$6,788.73	$7,504.92	$533.39	$759.55	$7,322.12	$8,264.48
63A	*Pole Replacement - 85'					$7,183.13	$7,899.31	$533.39	$759.55	$7,716.51	$8,658.87
63B	*Pole Replacement - 90'					$9,705.19	$10,421.37	$533.39	$759.55	$10,238.58	$11,180.93
63C	*Pole Replacement - 95'					$8,462.16	$9,178.35	$533.39	$759.55	$8,995.55	$9,937.91
63D	*Pole Replacement - 100'					$9,009.65	$9,725.83	$533.39	$759.55	$9,543.03	$10,485.39
63E	*Pole Replacement - 105'					$9,512.36	$10,228.55	$533.39	$759.55	$10,045.75	$10,988.11
63F	*Pole Replacement - 110'					$11,394.11	$12,110.30	$533.39	$759.55	$11,927.50	$12,869.86
63G	*Pole Replacement - 115'					$15,087.03	$15,803.21	$533.39	$759.55	$15,620.41	$16,562.77
63H	*Pole Replacement - 120'					$20,463.70	$21,179.89	$533.39	$759.55	$20,997.09	$21,939.44
64	Labor Adder for Rock Dig for Pole Hourly Placement ($/Hr.)					$1,475.38	$1,949.61			$1,475.38	$1,949.61
65	Three Phase Service (3 Phase, 4 Wire to 1/0 Quadraplex)			$513.44	$721.94	$476.20	$621.68	$4.44	$6.32	$619.80	$828.29
65A	Three Phase Service (3 Phase, 4 Wire to 336.4 Quadraplex)			$559.69	$768.18	$525.23	$670.71	$4.44	$6.32	$725.43	$955.82

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THIRD PARTY DISTRIBUTION POLE ATTACHMENT MAKE-READY WORK RATE SUMMARY SHEET (dollars)

Effective: December 14th , 2016

Item No.	Make-Ready Activity Item	R = Rearrangement		T = Transfer		I = Installation		RM = Removal		RPL = Replacement = I + RM	
		Rearrangement Costs (Labor		Transfer Costs (Labor and		Installation Costs (Labor and		Removal Costs		Replacement Costs (Labor and	
		Straight Time	Overtime	Straight Time	Overtime	Straight Time	Overtime	Straight Time	Overtime	Straight Time	Overtime
66	Secondary 1/0 Triplex (per conductor, per span)	$333.82	$475.36	$333.82	$475.36	$635.52	$839.37	$178.07	$253.58	$813.59	$1,092.94
66A	Secondary 336.4 Triplex/Quadraplex (per conductor, per span)	$734.45	$1,045.86	$734.45	$1,045.86	$974.00	$1,285.43	$289.36	$412.06	$1,263.37	$1,697.49
66B	Primary 1/0 ACSR (per conductor, per span)	$200.29	$285.21	$200.29	$285.21	$635.64	$839.49	$111.32	$158.52	$746.96	$998.01
66C	Primary 336.4 SAL (conductor, per span)	$200.29	$285.21	$200.29	$285.21	$636.45	$840.30	$178.07	$253.58	$814.52	$1,093.87
67	Single Phase Service (Open Wire/Multiplex to 1/0 Triplex) (each)					$318.97	$415.76	$4.44	$6.32	$323.40	$422.08
67A	Single Phase Service (Open Wire/Multiplex to 336.4 Triplex/Quad.)					$516.41	$661.90	$4.44	$6.32	$520.85	$668.21
68	Reconnect Service (Assoc. with Secondary Replacement) (each)	$175.37	$249.73	$175.37	$249.73						
69	Reconnect Streetlight (Assoc. with Secondary Replacement) (each)	$243.03	$346.08	$243.03	$346.08						
70	Reconnect Transformer (Assoc. with Secondary Replacement) (each)	$175.37	$249.73	$175.37	$249.73						
71	Tree Trim - up to 6" Diameter (each)	DETERMINED BY NATIONAL GRID FORESTRY REVIEW									
72	Tree Trim - Greater than 6" Diameter (each)										
	* - Performance Rates for poles obtained from the Joint Use Agreement										

M = Miscellaneous		MISCELLANEOUS ITEMS	
TRAVEL TIME ADDER			
73	Travel/Mobilization Adder	For Special Instances Where Make-Ready Work Requires Travel Beyond Customary Travel - An Added Cost shall be Estimated using the	
HOURLY RATES			
74	Light Traffic Flow -Traffic Control - Flagging ($/hr.)	$73.80	$107.80
75	Moderate Traffic Flow -Traffic Control - Flagging ($/hr.)	$107.60	$157.00
76	Heavy Traffic Flow -Traffic Control - Flagging ($/hr.)	$141.50	$206.30
OFF-ROAD MULTIPLIER			
77	Multiplier for Off-Road Work (Multiplier x Unit Price)	Fringe Benefits and	
OUTAGE COSTS			
78	Costs Related to Labor Associated with Outage Preparation and Execution	Costs are to be Estimated for Each Individual Outage	

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