ATTACHMENT INFORMATION SHEET - REVISION 6/14/2017

Licensee	MCIMetro
Licensee #	Horton Spoke 3
Location	St Paul, MN
PPA #	8429

Pole Total	64
# of New	30
# of Overlash	0
Attachment Total	30

Notes:
1) Enter all measurements in decimal format (ie 15 ft 6" = 15.5)
2) Lowest power at pole may be neutral, secondary, top of terminal riser, bottom of drip loops, etc.
3) For Power Equipment, note transformers, capacitor banks, switches, etc.

Please refer to the Appendix on "Communications Attachments to Xcel Energy Distribution Facilities" for specific clearance requirements. A copy of the Appendix can be obtained by calling (651) 229-2500.

Decimal Conversion:

0" = .00	4" = .33	8" = .67
1" = .08	5" = .42	9" = .75
2" = .17	6" = .50	10" = .83
3" = .25	7" = .58	11" = .92

							Power Pole & Equipment	Existing Attachment Height Information								Proposed Attachment Information		Highest Existing Communications			Proposed Communications			Pass / Fail Equipment Clearance			Pass / Fail Vertical		Pole Loading Information						Proposed Modifications / Make-Ready Necessary to Allow for Attachment	For Xcel Energy Use Only				
Pole No. (on Map)	New (N) or Overlash (O)	Xcel Energy GIS Pole ID	Latitude	Longitude	Pole Ht/ Class	Power Equipment on Pole	Lowest Power at Pole	Lowest Power Cable at Mid-span	Street Light Bracket / Drip Loop (Lowest)	Highest Existing Communic. At Pole (1)	Existing Communic. At Pole (2)	Existing Communic. At Pole (3)	# of Existing Risers	Proposed Attachment Height for New Cable	Proposed Mid-span Cable Height (Must meet Stnt.J-6 min. and local ord.)	48" from power cable	12" from street light bracket / drip loop	12" clearance from Communications (2)	19.5' at Pole Above Surface	48" from power cable	12" from street light bracket / drip loop	30" mid-span power cable clearance	12" clearance from Communications (1)	12" clearance from Communications (2)	12" clearance from Communications (3)	19.5' at Pole Above Surface	15.5' at Mid-span Above Surface (Must meet Stnt.J-6 min. and local ord.)	Span Length	Cable Diameter	Cable Weight	Structure Type (Tangent, Dead-End, Angle, etc.)	Current % Loading	Proposed % Loading	Guy / Anchor Required?		Approved / Denied / Approved with Conditions	Make Ready Required / Comments	Approved Attachment Height	Guy/ Anchor Required?	Post Inspection Height	Pass/ Fail
24	N	37742593			50-3		36.00	32.33		26.92	26.17			25.17	23.00	PASS		9	PASS	PASS		PASS	PASS	PASS		PASS	PASS	104	1.03	0.37	Dead-End	24.4	25.7%	Yes		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line. MCImetro will need to place an anchor & down guy north.		Yes		
25	N	37740535			50-3		33.00	31.25		23.75	22.92			21.92	23.42	PASS		9.96	PASS	PASS		PASS	PASS	PASS		PASS	PASS	144	1.03	0.37	Tangent	27.9	30.6%	No		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No		
26	N	37740529			50-3	XFMR	31.42	30.75		27.83	27.08			26.08	22.33	43.08		9	PASS	PASS		PASS	PASS	PASS		PASS	PASS	115	1.03	0.37	Tangent	28.5	32.6%	No		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No		
27	N	37740523			50-3		33.83	29.67		23.75	22.58			21.58	20.17	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	148	1.03	0.37	Junction	42.8	45.9%	No		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No		
28	N	37740517			40-5		29.42	26.92		24.92	23.83			22.83	19.00	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	201	1.03	0.37	Tangent	48.8	58.1%	No		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No		
29	N	37740511			40-5		30.42	21.92		24.17	23.25			22.25	16.00	PASS		11.04	PASS	PASS		PASS	PASS	PASS		PASS	PASS	235	1.03	0.37	Tangent	62.4	73.8%	No	A1 Re-sag span South. CTL Re-sag span South.	Approved with Conditions	MCImetro will need to contact the owner of A-1 (Comcast) to resag their 235' span to the south up to the maximum height. Note: the excess slack will need to be pushed another 168' to pole 31 which is a deadend where it can be taken out. MCImetro will need to contact the owner of Q-1 (Century Link) to resag their 235' span to the south up to the maximum height. Note: the excess slack will need to be pushed another 168' to pole 31 which is a deadend where it can be taken out. MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No		
30	N	37740415			40-5		24.92	21.33		21.42	20.42			19.42	16.08	42		PASS	PASS	PASS		PASS	PASS	PASS		19.42	PASS	168	1.03	0.37	Tangent	50.2	59.5%	No		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line. Note: the excess slack from makeready work on previous pole 29 to continue forward to pole 31.		No		
31	N	37740409			40-4		27.33	26.92		22.42	21.00			20.00	19.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	107	1.03	0.37	Junction	80.2	80.3%	Yes		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line. MCImetro will need to place an anchor & down guy south. Note: the excess slack from makeready work on previous pole 29 to be removed at this pole.		Yes		
32	N	37740421	P-P Guy		40-5	XFMR, STL	24.92	25.75	22.08	19.00	17.42			12.50		PASS	PASS	PASS	19.00	PASS	PASS		PASS	PASS			12.50		80	1.03	0.37	Tangent	48	51.1%	Yes		Approved	MCImetro will need to attach their new pole to pole guy from pole 31 at 12' 06".		No		
33	N	37740400	CTL Pole		45-4	XFMR, STL, Riser	27.58	28.17	23.75	22.08	20.67		1	19.67	17.25	PASS	PASS	PASS	PASS	PASS	PASS		PASS	PASS			PASS	PASS	111	1.03	0.37	Tangent	46.2	49.4%	No			Century Link owned pole.				
34	N	37761638	CTL Pole		45-4	STL, Riser	30.08	27.67	29.50	20.17	18.67		1	18.67	17.33	PASS	PASS	PASS	PASS	PASS	PASS		PASS	0			18.67	PASS	91	1.03	0.37	Tangent	45	48.3%	No	A1 Raise 12" to 21'2". This will require a splice in the COAX riser. CTL Raise 18" to 20'2"		Century Link owned pole.			
35	N	37761626	CTL Pole		40-4	XFMR	28.00	26.25		22.33	20.33		1	19.33	19.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		19.33	PASS	65	1.03	0.37	Tangent	36.7	39.5%	No	CTL Rotate terminal 90 degrees.		Century Link owned pole.			
36	N	37761620			45-3		26.67	26.50		23.00	21.75			20.75	19.58	44.04		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	109	1.03	0.37	Junction	45	46.1%	No		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No		
37	N	37761632	CTL Pole		40-4	STL	27.42	28.08	26.33	21.83	20.08			19.08	16.50	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		19.08	PASS	98	1.03	0.37	Tangent	43	46.4%	No	CTL Rotate terminal 90 degrees.		Century Link owned pole.			
38	N	37762661			45-5	XFMR	31.83	29.42		19.17	17.58			16.58	16.75	PASS		PASS	19.17	PASS		PASS	PASS	PASS		16.58	PASS	51	1.03	0.37	Tangent	41.3	43.9%	No		Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No		
39	N	37762667	CTL Pole		40-5	Riser	24.67	26.25		20.42	18.58		1	17.58	17.58	PASS		PASS	PASS	PASS		PASS	PASS	PASS		17.58	PASS	103	1.03	0.37	Tangent	51	54.3%	No			Century Link owned pole.			
40	N	37756598	CTL Pole		40-5	STL, Riser	27.25	24.83	24.25	21.58	20.00		1	19.00	18.33	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		19.00	PASS	49	1.03	0.37	Tangent	42.7	44.8%	No			Century Link owned pole.			
41	N	37756703			45-3	PTS, Riser	23.25	22.50		22.67	19.08		1	18.08	16.00	6.96		PASS	PASS	PASS		PASS	PASS	PASS		18.08	PASS	136	1.03	0.37	Tangent	29.5	31.4%	No	A1 Lower 33" to 19'11" and re-sag. CTL Re-sag span west.	Approved	MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No		
42	N	37756679	CTL Pole		45-3	STL	22.25	19.42	25.83	17.08	15.25			17.08	15.92	PASS	PASS	PASS	17.08	PASS	PASS	PASS	0	PASS		17.08	PASS	74	1.03	0.37	Tangent	33.3	36.7%	No	Re-Frame and raise cabled secondary to 24'10". Secondary is wrapped around the face of pole. A1 Raise 24" to 19'1" CTL Raise 34" to 18'1"		Century Link owned pole.			
43	N	37756496	CTL Pole		45-4	XFMR, STL	23.08	23.75	21.42	18.08	16.67			15.67	15.75	PASS	PASS	PASS	18.08	PASS	PASS	PASS	PASS	PASS		15.67	PASS	97	1.03	0.37	Tangent	46.1	46.7%	No			Century Link owned pole.			
44	N	37756481			40-3	XFMR, STL	25.33	23.83	23.83	20.50	19.00			18.00	16.08	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		18.00	PASS	96	1.03	0.37	Tangent	47.1	50.0%	No	CTL Rotate terminal 90 degrees.	Approved with Conditions	MCImetro will need to contact the owner of Q-1 (Century Link) to rotate their terminal box from the north side of the pole to the east side. MCImetro will need to attach their new line at 12" under the Q-1 (Century Link) line. MCImetro will need to place an anchor & down guy west.		Yes		
45	N	37756487			40-3	Riser	24.42			22.00			1	20.00		29.04			PASS	PASS			PASS			PASS			1.03	0.37	Dead-End	18.8	19.7%	Yes	A1 Lower 12" to 21'0"		Century Link owned pole.			
46	N	37770951	CTL Pole		45-3	XFMR, Riser	25.67	24.00		20.75	18.50		2	21.75	19.42	PASS		PASS	PASS	47.04		PASS	PASS	PASS		PASS	PASS	123	1.03	0.37	Dead-End	43.9	43.8%	Yes			Century Link owned pole.			
47	N	37770957	CTL Pole		40-4		28.58	25.33		20.17	18.25			21.17	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	76	1.03	0.37	Tangent	43.6	47.5%	No			Century Link owned pole.			
48	N	NT-1	CTL Pole		35-5		24.00	23.58		19.58	18.08			20.58	20.50	PASS		PASS	PASS	41.04		PASS	PASS	PASS		PASS	PASS	164	1.03	0.37	Tangent	39.3	46.3%	No			Century Link owned pole.			
49	N	37770963	CTL Pole		40-4	XFMR, STL	22.67	21.17	21.08	18.17	16.33		1	19.17	18.83	PASS	PASS	PASS	18.17	42	PASS	28.08	PASS	PASS		19.17	PASS	120	1.03	0.37	Tangent	42.2	47.3%	No			Century Link owned pole.			
50	N	37770969	CTL Pole		40-5	Riser	25.33	27.25		19.50	18.17		1	20.50	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	79	1.03	0.37	Tangent	34	37.8%	No			Century Link owned pole.			
51	N	37770975	CTL Pole		40-5	XFMR	29.67	25.92		19.83	18.08	17.75		20.83	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	PASS	PASS	81	1.03	0.37	Tangent	29.4	32.2%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
52	N	37770981	CTL Pole		35-5		24.92	24.42		19.17	17.83			20.17	19.58	PASS		PASS	19.17	PASS		PASS	PASS	PASS		19.08	PASS	81	1.03	0.37	Tangent	32.3	36.7%	No			Century Link owned pole.			
53	N	37770987	CTL Pole		35-5		24.42	26.25		18.08	16.00			19.08	19.17	PASS		PASS	18.08	PASS		PASS	PASS	PASS		19.08	PASS	83	1.03	0.37	Tangent	42.4	46.7%	No			Century Link owned pole.			
54	N	37771251	CTL Pole		40-5	Riser	28.42	23.92		18.75	16.83		1	19.75	19.00	PASS		PASS	18.75	PASS		PASS	PASS	PASS		PASS	PASS	109	1.03	0.37	Tangent	36.5	40.8%	No			Century Link owned pole.			
55	N	37770993	CTL Pole		40-3	XFMR, STL	23.75	25.67	20.33	19.67	18.50			19.67	20.08	PASS	7.92	PASS	PASS	PASS	7.92	PASS	0	PASS		PASS	PASS	118	1.03	0.37	Tangent	31	34.2%	No	STL Bond to ground, place split duct over STL drip loops. A1 Lower 14" to 18'6" CTL Lower 6" TO 17' 6"		Century Link owned pole.			
56	N	37770999	CTL Pole		45-4	Riser	29.00	23.50		20.67	19.42	18.58	1	21.67	19.83	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	PASS	PASS	123	1.03	0.37	Tangent	39.1	43.4%	No			Century Link owned pole.			
57	N	37752188	CTL Pole		40-4	XFMR	23.75	24.92		20.33	19.17	18.17		20.33	20.83	41.04		PASS	PASS	41.04		PASS	0	PASS	PASS	PASS	PASS	88	1.03	0.37	Tangent	32.5	36.3%	No	A1 Lower 14" to 19'2" CTL Lower top attachment to 18'2"		Century Link owned pole.			
58	N	37752194	CTL Pole		40-5		29.67	29.17		21.83	19.75			22.83	23.25	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	71	1.03	0.37	Tangent	22.1	24.6%	No			Century Link owned pole.			
59	N	37752200	CTL Pole		40-5	XFMR	28.83	26.75		20.92	19.00			23.00	20.83	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	150	1.03	0.37	Tangent	46.5	52.3%	No			Century Link owned pole.			
60	N	37752287	CTL Pole		40-5		29.75	25.50		21.08	19.42		1	22.08	20.08	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	80	1.03	0.37	Tangent	45.2	51.1%	No			Century Link owned pole.			
61	N	37752866	CTL Pole		40-5	XFMR, STL, Riser	23.00	22.33	22.17	19.50	18.50		1	19.50	19.33	42	PASS	PASS	PASS	42	PASS	PASS	0	PASS		PASS	PASS	120	1.03	0.37	Tangent	53.1	57.1%	No	A1 Lower 12" to 18'6" CTL Lower 12" to 17'6"		Century Link owned pole.			
62	N	37752293	CTL Pole		40-4	XFMR	28.17	28.33		20.67	18.75			21.67	21.17	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	83	1.03	0.37	Tangent	45.7	49.8%	No			Century Link owned pole.			
63	N	37752299	CTL Pole		45-3	Riser, STL	30.42	27.83	26.83	20.75	18.75		1	21.75	20.25	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		PASS	PASS	82	1.03	0.37	Tangent	57.2	59.7%	No			Century Link owned pole.			
64	N	37752305	CTL Pole		40-5	XFMR, Riser	21.67	24.75		20.58	18.67		2	19.67	18.42	13.08		PASS	PASS	24		PASS	10.92	PASS		PASS	PASS	108	1.03	0.37	Tangent	53	56.7%	No	Place U-Guard extensions over both power riser- Extend to 23'0" A1 Lower 23" to 18'8" CTL Lower 12" to 17'8"		Century Link owned pole.			
65	N	37752311	CTL Pole		40-4	XFMR, STL	29.42	26.50	27.00	21.33	19.50			21.33	20.67	PASS	PASS	PASS	PASS	PASS	PASS	PASS	0	PASS		PASS	PASS	63	1.03	0.37	Tangent	38.3	41.2%	No	A1 Lower 11" to 20'5"		Century Link owned pole.			
66	N	37752317			40-4		23.33	26.75		21.33	19.00			21.33	22.67	24		PASS	PASS	24		PASS	0	PASS		PASS	PASS	71	1.03	0.37	Junction	49.8	50.5%	No	Attach bottom secondary to existing 3 spool bracket. A1 Lower 12" to 20'4"		Century Link owned pole.			
67	N	37752335			40-5		28.83	25.67		22.00	20.00			23.00	21.08	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	120	1.03	0.37	Tangent	45.9	51.0%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
68	N	37752347			40-5	STL	27.33	24.25	25.42	21.50	19.92			22.50	22.00	PASS	PASS	PASS	PASS	PASS	PASS	27	PASS	PASS		PASS	PASS	123	1.03	0.37	Tangent	69.1	72.8%	No	Remove abandoned secondary between poles.	Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
69	N	37752353			45-4	XFMR, Riser	27.67	28.00		21.83	19.75		1	22.83	22.08	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	121	1.03	0.37	Tangent	61.2	64.5%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
70	N	37752359			45-4		33.42	25.33		22.42	20.58			23.42	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	141	1.03	0.37	Tangent	53.5	58.6%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
71	N	37752839			45-3	XFMR, STL, Riser	25.50	25.92	22.67	19.00	17.50		1	20.00	19.67	PASS	PASS	PASS	19.00	PASS	PASS	PASS	PASS	PASS		PASS	PASS	99	1.03	0.37	Tangent	65.6	67.4%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
72	N	37752365			50-3		28.67	26.50		22.17	21.25	19.92	1	23.17	20.42	PASS		11.04	PASS	PASS		PASS	PASS	PASS	PASS	PASS	PASS	119	1.03	0.37	Junction	50.3	50.4%	No		Approved	MCImetro will need to attach their new line at 12" above the A-3 (Zayo Group) line.		No		
73	N	37752563			45-3	XFMR	23.25	22.00		20.58	18.58		2	19.58	19.25	32.04		PASS	PASS	44.04		PASS	PASS	PASS		PASS	PASS	138	1.03	0.37	Tangent	55	59.1%	No	A1 Lower 24" to 18'7" and re-sag span West. CTL Lower 12" to 17'7"	Approved with Conditions	MCImetro will need to contact the owner of Q-1 (Century Link) to lower their line 12". MCImetro will need to contact the owner of A-1 (Comcast) to lower their line to 12" above the adjusted Q-1 (Century Link) line. MCImetro will need to attach their new line at 18" above the adjusted A-1 (Comcast) line. Note: MCImetro will be 18" above the Comcast line due to a Xcel Energy pole to pole guy frame at 12".		No		
74	N	37752629	CTL Pole		45-4	XFMR, STL	28.25	24.75	25.75	23.83	22.33			22.33	19.42	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	0		PASS	PASS	127	1.03	0.37	Tangent	80.2	83.3%	No	A1 Lower 30" to 21'4" CTL Lower 24" to 20'4"	Approved with Conditions	MCImetro will need to contact the owner of Q-1 (Century Link) to lower their line 24". MCImetro will need to contact the owner of A-1 (Comcast) to lower their line to 12" above the adjusted Q-1 (Century Link) line. MCImetro will need to attach their new line at 12" above the adjusted A-1 (Comcast) line.		No		
75	N	37752635			45-3	STL, Riser	24.33	23.25	26.17	20.08	18.58		1	21.08	18.67	PASS	PASS	PASS	PASS	39	PASS	PASS	PASS	PASS		PASS	PASS	123	1.03	0.37	Tangent	39.6	42.8%	No	A1 Complete transfer to new pole. Extend power supply weather head.	Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
76	N	37752641			40-5	XFMR,STL	23.50	20.67	22.00	16.75	16.00			17.75	18.17	PASS	PASS	9	16.75	PASS	PASS	PASS	PASS	PASS		17.75	PASS	127	1.03	0.37	Tangent	78.6	82.5%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
77	N	37752647	CTL Pole		40-5	XFMR	22.75	23.58		19.17	17.92			19.17	18.75	42.96		PASS	19.17	42.96		PASS	0	PASS		19.17	PASS	72	1.03	0.37	Tangent	58.8	62.8%	No	A1 Lower 15" to 17'11" CTL Lower 12" to 16'11"		Century Link owned pole.			
78	N	37752653	CTL Pole		40-5		25.42	25.67		17.83	16.50			18.83	20.00	PASS		PASS	17.83	PASS		PASS	PASS	PASS		18.83	PASS	39	1.03	0.37	Tangent	58.3	59.1%	No			Century Link owned pole.			
79	N	337045108			45-3	Cap Bank, Riser	23.92	24.58		18.83	17.92		1	19.83	21.50	PASS		10.92	18.83	PASS		PASS	PASS	PASS		PASS	PASS	126	1.03	0.37	Tangent	27.7	30.0%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
80	N	37752665 CTL			45-3	Riser, STL	24.67	20.92	24.75	21.83	21.00	20.75	1	21.00	17.67	34.08	PASS	9.96	PASS	44.04	PASS	PASS	9.96	0	3	PASS	PASS	123	1.03	0.37	Tangent	47.7	49.4%	No	A1 Lower 22" to 20'0" CTL Lower to 19'0"		Century Link owned pole.			
81	N	37752680			45-4	XFMR	23.33	25.25		17.83	16.92			18.83	19.42	PASS		10.92	17.83	PASS		PASS	PASS	PASS		18.83	PASS	108	1.03	0.37	Tangent	52.3	56.0%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
82	N	33752713	CTL Pole		45-4		30.50	25.00		18.83	17.33		1	20.83	20.17	PASS		PASS	18.83	PASS		PASS	PASS	PASS		PASS	PASS	134	1.03	0.37	Tangent	54.1	57.7%	No			Century Link owned pole.			
83	N	33753274	CTL Pole		40-5		26.75	24.50		20.33	17.83			21.33	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	42	1.03	0.37	Tangent	72.6	75.3%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
84	N	390933217			45-3	XFMR	23.17	21.33		19.17	18.50			19.50	18.83	PASS		8.04	19.17	44.04		PASS	3.96	PASS		PASS	PASS	77	1.03	0.37	Tangent	27.7	30.9%	No	A1 Frame to pole at 18'6" CTL Lower 12" to 17'6"	Approved	MCImetro will need to attach their new line at 40" under the 3-wire secondary line.		No		
85	N	37753280			40-5	XFMR	22.83	21.25		19.17	18.25	17.33		19.17	18.75	43.92		11.04	19.17	43.92		PASS	0	11.04	PASS	19.17	PASS	111	1.03	0.37	Tangent	50.1	54.1%	No	A1 Lower 11" to 18'3" CTL Lower top attachment to single point at 17'4"	Approved with Conditions	MCImetro will need to contact the owner of Q-1 (Century Link) to lower their top line down to their lower line and re-frame that attachment as a T-lead frame. MCImetro will need to contact the owner of A-1 (Comcast) to lower their line into the old top Q-1 (Century Link) position.		No		
86	N	37753292			45-3	Riser	25.92	24.00		19.17	18.17		1	20.17	21.00	PASS		PASS	19.17	PASS		PASS	PASS	PASS		PASS	PASS	86	1.03	0.37	Tangent	35.6	38.0%	No		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No		
87	N	37753310			50-3	XFMR	25.67	22.67		19.83	18.83		2	21.00		PASS		PASS	PASS	PASS			PASS	PASS		PASS		126	1.03	0.37	Dead-End	50.5	55.8%	Yes		Approved	MCImetro will need to attach their new line at 12" above the A-1 (Comcast) line. MCImetro will need to place an anchor & down guy east.		Yes		

UC/Synergetic Design

P.O. Box #550
Cottage Grove, MN 55016
(612)-991-7267

February 14, 2019 Notify #766723

RE: MCImetro Access Transmission Services Corp., Facility Attachment Asset Permit Application APA8429, in St. Paul, MN.

Xcel Energy Facility Attachments
825 Rice St.
St. Paul, MN 55117

I have completed the site inspection and technical review of MCImetro Access Transmission Services Corp. application, permit number APA8429. I have determined that all poles as indicated on the sketch can be attached to without any rearrangements or pole change-outs with the exception of the poles listed below. This determination was made by referencing the requirements for communications attachments found in the "Xcel Energy Electric Distribution Design and Construction Standards" manual.

It is the attaching utilities responsibility to make sure that all NESC and local ordinances for vertical clearance above surfaces (roads, alleys, fields, buildings etc.) are met.

Note!

Total count of poles checked = 63. 30 – New Attachments

30 poles are owned by Xcel Energy. 33 poles are foreign owned. Total of 30 Xcel Energy poles can be attached to on this request.

Measurements were taken on February 2 with an ambient temperature of +14° F.

Poles of concern needing some sort of modification to meet clearance requirements are as follows:

See notes in Xcel Energy Use Only columns of the Attachment Information sheet.

Please note: Attachments must be tagged for communication ownership on every pole. Upon completion of project, Xcel Energy must be notified to complete a post inspection.

Estimated costs for any required "make-ready" work will be provided by Xcel Energy Design Staff upon request. Attachments cannot be made until the cost estimate is approved, payment is made, and the requesting party is notified by Xcel Energy that the "make-ready" work has been completed in the field.

Any communication attachments that do not currently meet minimum required NESC clearances from electrical conductors must only be maintained by electrically qualified workers. Please contact Xcel Energy for assistance with correcting any such existing clearance violations or to create a work environment that is safe for any employees and contractors of the Lessee's to perform such work.

Sincerely,

Jeff Renwick

Xcel Energy SM

POLE PERMIT APPLICATION

Xcel Energy Permit # _____ **Licensee Permit # Horton Spoke 3-2**

This Pole Permit Application ("PPA") is made to the Pole License Agreement between **Northern States Power Company d/b/a/ Xcel Energy** ("Electric Company") and **MCImetro Access Transmission Services Corp, d/b/a Verizon Access Transmission** dated: Dec 31, 2008**- PLA signature date- do not change)**. Capitalized terms used in this PPA have the same meaning as such terms in the Pole License Agreement unless otherwise indicated.

Note: This Section only to be Completed by Licensee	
Number of Attachments Requested	**30 New Attachments 30 No. of poles** **Remove from Poles No. of poles** **Over Lash to Poles No. of poles**
Pole Locations – Address	**Starting on N Prior Ave, at Xcel pole# 37742593, head South to the alley South of W Inglehart Ave. Follow the alley West to Xcel pole# 37756487. Then rise up Xcel pole# 37770951, in the alley South of W Grand Ave at the intersection of N Cleveland Ave. Follow the alley East to Xcel pole# 37753310.**
City, County, and State	St Paul, Ramsey County, MN
Map Showing Pole Locations	See Attachment 1 : **Clearance and Pole Loading Worksheets** See Attachment 2
Description of Equipment to be Attached to Poles	864ct Ribbon Fiber lashed to a ¼" EHS Strand.
Licensee contact for emergencies	Mitchel VandenPlas

LICENSEE

Signature:		**Telephone:**	**612-246-4906 ex 4024**
Name: (print)	Mitchel VandenPlas – Mi-Tech Services, Inc. Agent for MCI Metro Access	**Title:**	**Regional Project Manager**
Company:	**MCImetro Access Transmission Services Corp, d/b/a Verizon Access Transmission**	**Address:**	**7383 County Rd 140, Cologne, MN 55322**

****

ELECTRIC COMPANY

Signature:		**All Approved** **All Denied** ***(See attached)***
Name (print):		**Approved With Conditions** ***(See Attached Report)*** **# of Attachments Approved: =**
Title:		**Date:**

Modifications required (see attachment)	***Must follow instructions on attached report and subject to Licensee's compliance with all the requirements of the agreement, NESC, and other applicable state and local codes and regulations.***
Electric Company contact for EMERGENCIES	***800-895-1999***

ATTACHMENT INFORMATION SHEET - REVISION 6/14/2017

Licensee	MCIMetro
Licensee #	Horton Spoke 3
Location	St Paul, MN
PPA #	

Pole Total	64
# of New	30
# of Overlash	0
Attachment Total	30

Notes:
1) Enter all measurements in decimal format (ie 15 ft 6" = 15.5)
2) Lowest power at pole may be neutral, secondary, top of terminal riser, bottom of drip loops, etc.
3) For Power Equipment, note transformers, capacitor banks, switches, etc.

Please refer to the Appendix on "Communications Attachments to Xcel Energy Distribution Facilities" for specific clearance requirements. A copy of the Appendix can be obtained by calling (651) 229-2500.

Decimal Conversion:

0" = .00	4" = .33	8" = .67
1" = .08	5" = .42	9" = .75
2" = .17	6" = .50	10" = .83
3" = .25	7" = .58	11" = .92

		Power Pole & Equipment			Existing Attachment Height Information								Proposed Attachment Information		Highest Existing Communications			Proposed Communications		Pass / Fail Equipment Clearance				Pass / Fail Vertical		Pole Loading Information							For Xcel Energy Use Only				
Pole No. (on Map)	New (N) or Overlash (O)	Xcel Energy GIS Pole ID	Latitude	Longitude	Pole Ht/ Class	Power Equipment on Pole	Lowest Power at Pole	Lowest Power Cable at Mid-span	Street Light Bracket / Drip Loop (Lowest)	Highest Existing Communic. At Pole (1)	Existing Communic. At Pole (2)	Existing Communic. At Pole (3)	# of Existing Risers	Proposed Attachment Height for New Cable	Proposed Mid-span Cable Height (Must meet Stnl.J-6 min. and local ord.)	48" from power cable	12" from street light bracket / drip loop	12" clearance from Communications (2)	48" from power cable	12" from street light bracket / drip loop	30" mid-span power cable clearance	12" clearance from Communications (1)	12" clearance from Communications (2)	12" clearance from Communications (3)	19.5' at Pole Above Surface	15.5' at Mid-span Above Surface (Must meet Stnl.J-6 min. and local ord.)	Span Length	Cable Diameter	Cable Weight	Structure Type (Tangent, Dead-End, Angle, etc.)	Current % Loading	Proposed % Loading	Guy / Anchor Required?	Proposed Modifications / Make-Ready Necessary to Allow for Attachment	Approved / Denied / Approved with Conditions	Make Ready Required / Comments	Approved Attachment Height	Guy/ Anchor Required?	Post Inspection Height	Pass/ Fail
24	N	37742593			50-3		36.00	32.33		26.92	26.17			25.17	23.00	PASS		9	PASS	PASS		PASS	PASS	PASS		PASS	PASS	104	1.03	0.37	Dead-End	24.4	25.7%	Yes							
25	N	37740535			50-3		33.00	31.25		23.75	22.92			21.92	23.42	PASS		9.96	PASS	PASS		PASS	PASS			PASS	PASS	144	1.03	0.37	Tangent	27.9	30.6%	No							
26	N	37740529			50-3	XFMR	31.42	30.75		27.83	27.08			26.08	22.33	43.08		9	PASS	PASS		PASS	PASS	PASS		PASS	PASS	115	1.03	0.37	Tangent	28.5	32.6%	No							
27	N	37740523			50-3		33.83	29.67		23.75	22.58			21.58	20.17	PASS		PASS	PASS	PASS		PASS	PASS			PASS	PASS	148	1.03	0.37	Junction	42.8	45.9%	No							
28	N	37740517			40-5		29.42	26.92		24.92	23.83			22.83	19.00	PASS		PASS	PASS	PASS		PASS	PASS			PASS	PASS	201	1.03	0.37	Tangent	48.8	58.1%	No							
29	N	37740511			40-5		30.42	21.92		24.17	23.25			22.25	16.00	PASS		11.04	PASS	PASS		PASS	PASS			PASS	PASS	235	1.03	0.37	Tangent	62.4	73.8%	No	A1 Re-sag span South. CTL Re-sag span South.						
30	N	37740415			40-5		24.92	21.33		21.42	20.42			19.42	16.08	42		PASS	PASS	PASS		PASS	PASS			19.42	PASS	168	1.03	0.37	Tangent	50.2	59.5%	No							
31	N	37740409			40-4		27.33	26.92		22.42	21.00			20.00	19.33	PASS		PASS	PASS	PASS		PASS	PASS			PASS	PASS	107	1.03	0.37	Junction	80.2	80.3%	Yes							
32	N	37740421	P-P Guy		40-5	XFMR, STL	24.92	25.75	22.08	19.00	17.42			12.50		PASS	PASS	PASS	19.00	PASS	PASS		PASS	PASS		12.50		80	1.03	0.37	Tangent	48	51.1%	Yes							
33	N	37740400	CTL Pole		45-4	XFMR, STL, Riser	27.58	28.17	23.75	22.08	20.67		1	19.67	17.25	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		PASS	PASS	111	1.03	0.37	Tangent	46.2	49.4%	No							
34	N	37761638	CTL Pole		45-4	STL, Riser	30.08	27.67	29.50	20.17	18.67		1	18.67	17.33	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	0		18.67	PASS	91	1.03	0.37	Tangent	45	48.3%	No	A1 Raise 12" to 21'2". This will require a splice in the COAX riser. CTL Raise 18" to 20'2"						
35	N	37761626	CTL Pole		40-4	XFMR	28.00	26.25		22.33	20.33		1	19.33	19.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		19.33	PASS	65	1.03	0.37	Tangent	36.7	39.5%	No	CTL Rotate terminal 90 degrees.						
36	N	37761620			45-3		26.67	26.50		23.00	21.75			20.75	19.58	44.04		PASS	PASS	PASS		PASS	PASS			PASS	PASS	109	1.03	0.37	Junction	45	46.1%	No							
37	N	37761632	CTL Pole		40-4	STL	27.42	28.08	26.33	21.83	20.08			19.08	16.50	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		19.08	PASS	98	1.03	0.37	Tangent	43	46.4%	No	CTL Rotate terminal 90 degrees.						
38	N	37762661			45-5	XFMR	31.83	29.42		19.17	17.58			16.58	16.75	PASS		PASS	19.17	PASS		PASS	PASS	PASS		16.58	PASS	51	1.03	0.37	Tangent	41.3	43.9%	No							
39	N	37762667	CTL Pole		40-5	Riser	24.67	26.25		20.42	18.58		1	17.58	17.58	PASS		PASS	PASS	PASS		PASS	PASS	PASS		17.58	PASS	103	1.03	0.37	Tangent	51	54.3%	No							
40	N	37756598	CTL Pole		40-5	STL, Riser	27.25	24.83	24.25	21.58	20.00		1	19.00	18.33	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		19.00	PASS	49	1.03	0.37	Tangent	42.7	44.8%	No							
41	N	37756703			45-3	PTS, Riser	23.25	22.50		22.67	19.08		1	18.08	16.00	6.96		PASS	PASS	PASS		PASS	PASS			18.08	PASS	136	1.03	0.37	Tangent	29.5	31.4%	No	A1 Lower 33" to 19'11" and re-sag. CTL Re-sag span west.						
42	N	37756679	CTL Pole		45-3	STL	22.25	19.42	25.83	17.08	15.25			17.08	15.92	PASS	PASS	PASS	17.08	PASS	PASS	PASS	0	PASS		17.08	PASS	74	1.03	0.37	Tangent	33.3	36.7%	No	Re-Frame and raise cabled secondary to 24'10". Secondary is wrapped around the face of pole. A1 Raise 24" to 19'1" CTL Raise 34" to 18'1"						
43	N	37756496	CTL Pole		45-4	XFMR, STL	23.08	23.75	21.42	18.08	16.67			15.67	15.75	PASS	PASS	PASS	18.08	PASS	PASS	PASS	PASS	PASS		15.67	PASS	97	1.03	0.37	Tangent	46.1	46.7%	No							
44	N	37756481			40-3	XFMR, STL	25.33	23.83	23.83	20.50	19.00			18.00	16.08	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		18.00	PASS	96	1.03	0.37	Tangent	47.1	50.0%	No	CTL Rotate terminal 90 degrees.						
45	N	37756487			40-3	Riser	24.42			22.00			1	20.00		29.04			PASS				PASS			PASS			1.03	0.37	Dead-End	18.8	19.7%	Yes	A1 Lower 12" to 21'0"						
46	N	37770951	CTL Pole		45-3	XFMR, Riser	25.67	24.00		20.75	18.50		2	21.75	19.42	PASS		PASS	PASS	47.04		PASS	PASS	PASS		PASS	PASS	123	1.03	0.37	Dead-End	43.9	43.8%	Yes							
47	N	37770957	CTL Pole		40-4		28.58	25.33		20.17	18.25			21.17	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	76	1.03	0.37	Tangent	43.6	47.5%	No							
48	N	NT-1	CTL Pole		35-5		24.00	23.58		19.58	18.08			20.58	20.50	PASS		PASS	PASS	41.04		PASS	PASS	PASS		PASS	PASS	164	1.03	0.37	Tangent	39.3	46.3%	No							
49	N	37770963	CTL Pole		40-4	XFMR, STL	22.67	21.17	21.08	18.17	16.33		1	19.17	18.83	PASS	PASS	PASS	18.17	42	PASS	28.08	PASS	PASS		19.17	PASS	120	1.03	0.37	Tangent	42.2	47.3%	No							
50	N	37770969	CTL Pole		40-5	Riser	25.33	27.25		19.50	18.17		1	20.50	20.33	PASS		PASS	PASS	PASS		PASS	PASS			PASS	PASS	79	1.03	0.37	Tangent	34	37.8%	No							
51	N	37770975	CTL Pole		40-5	XFMR	29.67	25.92		19.83	18.08	17.75		20.83	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	PASS	PASS	81	1.03	0.37	Tangent	29.4	32.2%	No							
52	N	37770981	CTL Pole		35-5		24.92	24.42		19.17	17.83			20.17	19.58	PASS		PASS	19.17	PASS		PASS	PASS	PASS		PASS	PASS	81	1.03	0.37	Tangent	32.3	36.7%	No							
53	N	37770987	CTL Pole		35-5		24.42	26.25		18.08	16.00			19.08	19.17	PASS		PASS	18.08	PASS		PASS	PASS	PASS		19.08	PASS	83	1.03	0.37	Tangent	42.4	46.7%	No							
54	N	37771251	CTL Pole		40-5	Riser	28.42	23.92		18.75	16.83		1	19.75	19.00	PASS		PASS	18.75	PASS		PASS	PASS	PASS		PASS	PASS	109	1.03	0.37	Tangent	36.5	40.8%	No							
55	N	37770993	CTL Pole		40-3	XFMR, STL	23.75	25.67	20.33	19.67	18.50			19.67	20.08	PASS	7.92	PASS	PASS	PASS	7.92	PASS	0	PASS		PASS	PASS	118	1.03	0.37	Tangent	31	34.2%	No	STL Bond to ground, place split duct over STL drip loops. A1 Lower 14" to 18'6" CTL Lower 6" TO 17' 6"						
56	N	37770999	CTL Pole		45-4	Riser	29.00	23.50		20.67	19.42	18.58	1	21.67	19.83	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	123	1.03	0.37	Tangent	39.1	43.4%	No							
57	N	37752188	CTL Pole		40-4	XFMR	23.75	24.92		20.33	19.17	18.17		20.33	20.83	41.04		PASS	PASS	41.04		PASS	0	PASS	PASS	PASS	PASS	88	1.03	0.37	Tangent	32.5	36.3%	No	A1 Lower 14" to 19'2" CTL Lower top attachment to 18'2"						
58	N	37752194	CTL Pole		40-5		29.67	29.17		21.83	19.75			22.83	23.25	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	71	1.03	0.37	Tangent	22.1	24.6%	No							
59	N	37752200	CTL Pole		40-5	XFMR	28.83	26.75		20.92	19.00			23.00	20.83	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	150	1.03	0.37	Tangent	46.5	52.3%	No							
60	N	37752287	CTL Pole		40-5		29.75	25.50		21.08	19.42		1	22.08	20.08	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	80	1.03	0.37	Tangent	45.2	51.1%	No							
61	N	37752866	CTL Pole		40-5	XFMR, STL, Riser	23.00	22.33	22.17	19.50	18.50		1	19.50	19.33	42	PASS	PASS	PASS	42	PASS	PASS	0	PASS		PASS	PASS	120	1.03	0.37	Tangent	53.1	57.1%	No	A1 Lower 12" to 18'6" CTL Lower 12" to 17'6"						
62	N	37752293	CTL Pole		40-4	XFMR	28.17	28.33		20.67	18.75			21.67	21.17	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	83	1.03	0.37	Tangent	45.7	49.8%	No							
63	N	37752299	CTL Pole		45-3	Riser, STL	30.42	27.83	26.83	20.75	18.75		1	21.75	20.25	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		PASS	PASS	82	1.03	0.37	Tangent	57.2	59.7%	No							
64	N	37752305	CTL Pole		40-5	XFMR, Riser	21.67	24.75		20.58	18.67		2	19.67	18.42	13.08		PASS	PASS	24		PASS	10.92	PASS		PASS	PASS	108	1.03	0.37	Tangent	53	56.7%	No	Place U-Guard extensions over both power riser- Extend to 23'0" A1 Lower 23" to 18'8" CTL Lower 12" to 17'8"						
65	N	37752311	CTL Pole		40-4	XFMR, STL	29.42	26.50	27.00	21.33	19.50			21.33	20.67	PASS	PASS	PASS	PASS	PASS	PASS	PASS	0	PASS		PASS	PASS	63	1.03	0.37	Tangent	38.3	41.2%	No	A1 Lower 11" to 20'5"						
66	N	37752317	CTL Pole		40-4	XFMR, STL	23.33	26.75		21.33	19.00			21.33	22.67	24	PASS	PASS	PASS	24	PASS	PASS	0	PASS		PASS	PASS	71	1.03	0.37	Junction	49.8	50.5%	No	Attach bottom secondary to existing 3 spool bracket. A1 Lower 12" to 20'4"						
67	N	37752335			40-5		28.83	25.67		22.00	20.00			23.00	21.08	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	120	1.03	0.37	Tangent	45.9	51.0%	No							
68	N	37752347			40-5	STL	27.33	24.25	25.42	21.50	19.92			22.50	22.00	PASS	PASS	PASS	PASS	PASS	PASS	27	PASS	PASS		PASS	PASS	123	1.03	0.37	Tangent	69.1	72.8%	No	Remove abandoned secondary between poles.						
69	N	37752353			45-4	XFMR, Riser	27.67	28.00		21.83	19.75		1	22.83	22.08	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	121	1.03	0.37	Tangent	61.2	64.5%	No							
70	N	37752359			45-4		33.42	25.33		22.42	20.58			23.42	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	141	1.03	0.37	Tangent	53.5	58.6%	No							
71	N	37752839			45-3	XFMR, STL, Riser	25.50	25.92	22.67	19.00	17.50		1	20.00	19.67	PASS	PASS	PASS	19.00	PASS	PASS	PASS	PASS	PASS		PASS	PASS	99	1.03	0.37	Tangent	65.6	67.4%	No							
72	N	37752365			50-3		28.67	26.50		22.17	21.25	19.92	1	23.17	20.42	PASS		11.04	PASS	PASS		PASS	PASS	PASS	PASS	PASS	PASS	119	1.03	0.37	Junction	50.3	50.4%	No							
73	N	37752563			45-3	XFMR	23.25	22.00		20.58	18.58		2	19.58	19.25	32.04		PASS	PASS	44.04		PASS	PASS	PASS		PASS	PASS	138	1.03	0.37	Tangent	55	59.1%	No	A1 Lower 24" to 18'7" and re-sag span West. CTL Lower 12" to 17'7"						
74	N	37752629	CTL Pole		45-4	XFMR, STL	28.25	24.75	25.75	23.83	22.33			22.33	19.42	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	0		PASS	PASS	127	1.03	0.37	Tangent	80.2	83.3%	No	A1 Lower 30" to 21'4" CTL Lower 24" to 20'4"						
75	N	37752635			45-3	STL, Riser	24.33	23.25	26.17	20.08	18.58		1	21.08	18.67	PASS	PASS	PASS	PASS	39	PASS	PASS	PASS	PASS		PASS	PASS	123	1.03	0.37	Tangent	39.6	42.8%	No	A1 Complete transfer to new pole. Extend power supply weather head.						
76	N	37752641			40-5	XFMR,STL	23.50	20.67	22.00	16.75	16.00			17.75	18.17	PASS	PASS	9	16.75	PASS	PASS	PASS	PASS	PASS		17.75	PASS	127	1.03	0.37	Tangent	78.6	82.5%	No							
77	N	37752647	CTL Pole		40-5	XFMR	22.75	23.58		19.17	17.92			19.17	18.75	42.96		PASS	19.17	42.96		PASS	0	PASS		19.17	PASS	72	1.03	0.37	Tangent	58.8	62.8%	No	A1 Lower 15" to 17'11" CTL Lower 12" to 16'11"						
78	N	37752653	CTL Pole		40-5		25.42	25.67		17.83	16.50			18.83	20.00	PASS		PASS	17.83	PASS		PASS	PASS	PASS		18.83	PASS	39	1.03	0.37	Tangent	58.3	59.1%	No							
79	N	337045108			45-3	Cap Bank, Riser	23.92	24.58		18.83	17.92		1	19.83	21.50	PASS		10.92	18.83	PASS		PASS	PASS	PASS		PASS	PASS	126	1.03	0.37	Tangent	27.7	30.0%	No							
80	N	37752665 CTL			45-3	Riser, STL	24.67	20.92	24.75	21.83	21.00	20.75	1	21.00	17.67	34.08	PASS	9.96	PASS	44.04	PASS	PASS	9.96	0	3	PASS	PASS	123	1.03	0.37	Tangent	47.7	49.4%	No	A1 Lower 22" to 20'0" CTL Lower to 19'0"						
81	N	37752680			45-4	XFMR	23.33	25.25		17.83	16.92			18.83	19.42	PASS		10.92	17.83	PASS		PASS	PASS	PASS		18.83	PASS	108	1.03	0.37	Tangent	52.3	56.0%	No							
82	N	33752713	CTL Pole		45-4		30.50	25.00		18.83	17.33		1	20.83	20.17	PASS		PASS	18.83	PASS		PASS	PASS	PASS		PASS	PASS	134	1.03	0.37	Tangent	54.1	57.7%	No							
83	N	33753274	CTL Pole		40-5		26.75	24.50		20.33	17.83			21.33	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	42	1.03	0.37	Tangent	72.6	75.3%	No							
84	N	390933217			45-3	XFMR	23.17	21.33		19.17	18.50			19.50	18.83	PASS		8.04	19.17	44.04		PASS	3.96	PASS		PASS	PASS	77	1.03	0.37	Tangent	27.7	30.9%	No	A1 Frame to pole at 18'6" CTL Lower 12" to 17'6"						
85	N	37753280			40-5	XFMR	22.83	21.25		19.17	18.25	17.33		19.17	18.75	43.92		11.04	19.17	43.92		PASS	0	11.04	PASS	19.17	PASS	111	1.03	0.37	Tangent	50.1	54.1%	No	A1 Lower 11" to 18'3" CTL Lower top attachment to single point at 17'4"						
86	N	37753292			45-3	Riser	25.92	24.00		19.17	18.17		1	20.17	21.00	PASS		PASS	19.17	PASS		PASS	PASS	PASS		PASS	PASS	86	1.03	0.37	Tangent	35.6	38.0%	No							
87	N	37753310			50-3	XFMR	25.67	22.67		19.83	18.83		2	21.00		PASS		PASS	PASS	PASS			PASS	PASS		PASS		126	1.03	0.37	Dead-End	50.5	55.8%	Yes							

Signatures

Conversation

Compiled by: John Smith on 14-05-2019

Signed:

Conversation

Reviewed by: Ted Cooper on 14-05-2019

Signed: