ICC Docket No. 02-0864
Illinois Commerce Commission
STAFF Data Request No. QL 1.03

Request: In LoopCAT, FDI fill factor is a weighed average of distribution fill (2/3) and feeder fill (1/3). In contrast, DT fill is set to equal to distribution fill. Please explain why are fill factors for DT and FDI are calculated differently – i.e., why not set DT fill equal to a weighed average of distribution fill and drop fill?

Response:

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Witness Responsible: James R. Smallwood
Associate Director-Cost Analysis
One SBC Center, Room 38-X-8
St. Louis, MO 63101

ICC Docket No. 02-0864
Illinois Commerce Commission
STAFF Data Request No. QL 1.06b

Request: It appears that the unit costs (column "Unit Cost" in Premises Termination-Business tab in LoopCAT) are the same for aerial and buried for Wire Apparatus/Wire Protector (size > 6). However, the installation factors for aerial and buried Wire Apparatus/Wire Protector (size > 6) differ, which leads to different aerial and buried Wire Apparatus/Wire Protector unit investments. In contrast, for Building Entrance facilities, both the unit costs and installation factors are the same for buried and aerial.

(b) Please confirm whether LoopCAT assumes identical unit (material) costs for aerial and buried Building Entrance facilities. If so, why?

Response:

Witness Responsible: James R. Smallwood
Associate Director-Cost Analysis
One SBC Center, Room 38-X-8
St. Louis, MO 63101

Staff- and SBC-proposed capital and expense cost factors

Schedule 3
Staff Exhibit 5.0
ICC Docket No. 02-0864
Public

Staff's COST FACTORS	Factor Issue: ACF_2001_IL_STD_10-15-2002 (Staff revised)						
	Field	Capital Cost Factors			Expense Cost Factors		
	Reporting	Depreciation	Cost of Money	Income Tax	Maintenance	Other	Ad Valorem
Plant	Code	Factor	Factor	Factor	Factor	Expense	Tax
Poles	1C - 2411	0.0407	0.0411	0.0199	0.0205	0.0090	0.0014
Aerial Cable	22C - 2421	0.0625	0.0428	0.0207	0.1161	0.0090	0.0014
DLC Equipment	257C- 2232	0.0909	0.0358	0.0173	0.0255	0.0127	0.0014
Frame Equipment	377C- 2212	0.0625	0.0361	0.0175	0.0475	0.0127	0.0014
Buried Cable - Copper	45C - 2423	0.0550	0.0456	0.0220	0.0793	0.0090	0.0014
Conduit	4C - 2441	0.0169	0.0528	0.0255	0.0203	0.0090	0.0014
Underground Cable - Copper	5C - 2422	0.0500	0.0435	0.0210	0.0409	0.0090	0.0014
Buried Cable - Fiber	845C - 2423	0.0440	0.0460	0.0222	0.0938	0.0090	0.0014
Underground Cable - Fiber	85C - 2422	0.0480	0.0443	0.0214	0.0293	0.0090	0.0014
Aerial Cable - Fiber	822C - 2421	0.0625	0.0428	0.0207	0.0402	0.0090	0.0014
Buildings - DLC	10C - 2121	0.0211	0.0595	0.0288	0.0136	0.0000	0.0014
Buildings - Frame Equipment	10C - 2121	0.0211	0.0595	0.0288	0.0136	0.0000	0.0014
Land	20C - 2111	0.0000	0.0821	0.0397	0.0000	0.0000	0.0014
IntraBuilding Cable	12C - 2426	0.0575	0.0446	0.0216	0.0229	0.0090	0.0014

SBC's COST FACTORS	Factor Issue: ACF_2001_IL_STD_10-15-2002						
	Field	Capital Cost Factors			Expense Cost Factors		
	Reporting	Depreciation	Cost of Money	Income Tax	Maintenance	Other	Ad Valorem
Plant	Code	Factor	Factor	Factor	Factor	Expense	Tax
Poles	1C - 2411	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Aerial Cable	22C - 2421	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
DLC Equipment	257C- 2232	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Frame Equipment	377C- 2212	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Buried Cable - Copper	45C - 2423	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Conduit	4C - 2441	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Underground Cable - Copper	5C - 2422	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Buried Cable - Fiber	845C - 2423	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Underground Cable - Fiber	85C - 2422	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Aerial Cable - Fiber	822C - 2421	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Buildings - DLC	10C - 2121	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Buildings - Frame Equipment	10C - 2121	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
Land	20C - 2111	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx
IntraBuilding Cable	12C - 2426	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx	x.xxxxx

Staff- and SBC-proposed Installation Factors and Fiber Cable Costs

Staff

COPPER CABLE DESIGN AND INSTALLATION COST FACTORS - Staff

Cost Factor	Aerial	Buried	Underground	Intrabuilding
TELCO Labor	3.1364	1.7991	1.2081	1.2600
TELCO Engineering	0.5775	0.4147	0.3352	0.5678
Contractor Design & Install	0.1339	1.4513	0.1227	0.0391
Sundry & Misc. Expense	0.9798	0.5240	0.3254	0.4391

FIBER CABLE DESIGN AND INSTALLATION COST FACTORS - Staff

Cost Factor	Aerial	Buried	Underground
TELCO Labor	0.8583	0.6793	0.3188
TELCO Engineering	0.1650	0.2374	0.1100
Contractor Design & Install	0.0763	1.2645	0.2759
Sundry & Misc. Expense	0.2731	0.3212	0.1454

FIBER CABLE - Staff

	Fiber - UG	Fiber - Buried	Fiber - Aerial
Fiber Size	Per Ft. Cost	Per Ft. Cost	Per Ft. Cost
24 Fibers	$1.5134	$2.8650	$1.9409
48 Fibers	$2.1471	$4.0647	$2.7536
216 Fibers	$6.4392	$12.1899	$8.2580

Staff- and SBC-proposed Installation Factors and Fiber Cable Costs

SBC

COPPER CABLE DESIGN AND INSTALLATION COST FACTORS - SBC

Cost Factor		Aerial	Buried	Underground	Intrabuilding
TELCO Labor		x.xxxx	x.xxxx	x.xxxx	x.xxxx
TELCO Engineering		x.xxxx	x.xxxx	x.xxxx	x.xxxx
Contractor Design & Install		x.xxxx	x.xxxx	x.xxxx	x.xxxx
Sundry & Misc. Expense		x.xxxx	x.xxxx	x.xxxx	x.xxxx

FIBER CABLE DESIGN AND INSTALLATION COST FACTORS - SBC

Cost Factor		Aerial	Buried	Underground
TELCO Labor		x.xxxx	x.xxxx	x.xxxx
TELCO Engineering		x.xxxx	x.xxxx	x.xxxx
Contractor Design & Install		x.xxxx	x.xxxx	x.xxxx
Sundry & Misc. Expense		x.xxxx	x.xxxx	x.xxxx

FIBER CABLE - SBC

	Fiber - UG	Fiber - Buried	Fiber - Aerial
Fiber Size	Per Ft. Cost	Per Ft. Cost	Per Ft. Cost
24 Fibers	x.xxxx	x.xxxx	x.xxxx
48 Fibers	x.xxxx	x.xxxx	x.xxxx
216 Fibers	x.xxxx	x.xxxx	x.xxxx

Staff- and SBC-proposed Fill Factors and Fill-related Inputs

Staff Fill Rates									
BUSINESS PREM TERM - FILL RATES									
Prem Term Block Size	Zone 1	Zone 2	Zone 3	Zone 4	State				
6	0.8000	0.8000	0.8000		0.8000				
25	0.8000	0.8000	0.8000		0.8000				
50	0.8000	0.8000	0.8000		0.8000				
100	0.8000	0.8000	0.8000		0.8000				
200	0.8000	0.8000	0.8000		0.8000				
300	0.8000	0.8000	0.8000		0.8000				
400	0.8000	0.8000	0.8000		0.8000				
600	0.8000	0.8000	0.8000		0.8000				
900	0.8000	0.8000	0.8000		0.8000				
Low Capacity Fill Rates		Copper Feeder	DLC Chassis	DLC Plug-in	Distribution	Lines Per Premise	Copper Feeder Installation	Distribution Installation	
	ENTIRE STATE	0.8500	0.9000	0.9000	0.8000	x.xxxx	0.8500	0.8000	
Urban	U	0.8500	0.9000	0.9000	0.8000	x.xxxx	0.8500	0.8000	
Suburban	S	0.8500	0.9000	0.9000	0.8000	x.xxxx	0.8500	0.8000	
Rural	R	0.8500	0.9000	0.9000	0.8000	x.xxxx	0.8500	0.8000	
DS1 Fill Rates		Copper Feeder	DLC Chassis	DLC Plug-in	Distribution	Lines Per Premise	Copper Feeder Installation	Distribution Installation	Copper Feeder Percentage
	ENTIRE STATE	0.8500	0.9000	0.9000	0.8000	x.xxxx	0.8500	0.8000	31.30%
Urban	U	0.8500	0.9000	0.9000	0.8000	x.xxxx	0.8500	0.8000	26.10%
Suburban	S	0.8500	0.9000	0.9000	0.8000	x.xxxx	0.8500	0.8000	39.10%
Rural	R	0.8500	0.9000	0.9000	0.8000	x.xxxx	0.8500	0.8000	30.10%

Staff- and SBC-proposed Fill Factors and Fill-related Inputs

SBC Fill Rates									
BUSINESS PREM TERM - FILL RATES									
Prem Term									
Block Size	Zone 1	Zone 2	Zone 3	Zone 4	State				
6	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
25	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
50	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
100	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
200	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
300	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
400	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
600	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
900	x.xxxx	x.xxxx	x.xxxx		x.xxxx				
Low Capacity Fill Rates		Copper Feeder	DLC Chassis	DLC Plug-in	Distribution	Lines Per Premise	Copper Feeder Installation	Distribution Installation	
	ENTIRE STATE	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	
Urban	U	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	
Suburban	S	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	
Rural	R	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	
DS1 Fill Rates		Copper Feeder	DLC Chassis	DLC Plug-in	Distribution	Lines Per Premise	Copper Feeder Installation	Distribution Installation	Copper Feeder Percentage
	ENTIRE STATE	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx
Urban	U	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx
Suburban	S	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx
Rural	R	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx	x.xxxx

Staff- and SBC-proposed DS1 Circuit Equipment Investment Costs

Schedule 6
Staff Exhibit 5.0
ICC Docket No. 02-0864
Public

Staff DS1 Equipment Investment Costs

Area A - Urban	Investment	Monthly Recurring Cost	Weighting	Weighted Monthly Recurrig Cost
DS1 2-WIRE COPPER	$828.6486	$11.9038	xx.xxxx%	xx.xxxx
DS1 FIBER LOOP	$1,483.7220	$21.2701	xx.xxxx%	xx.xxxx
DS1 MIXED LOOP	$686.5317	$9.8443	xx.xxxx%	xx.xxxx
				$0.0000

Area B - Suburban	Investment	Monthly Recurring Cost	Weighting	Weighted Monthly Recurrig Cost
DS1 2-WIRE COPPER	$828.6486	$11.9038	xx.xxxx%	xx.xxxx
DS1 FIBER LOOP	$1,571.2553	$22.5238	xx.xxxx%	xx.xxxx
DS1 MIXED LOOP	$686.5317	$9.8443	xx.xxxx%	xx.xxxx
				$0.0000

Area C - Rural	Investment	Monthly Recurring Cost	Weighting	Weighted Monthly Recurrig Cost
DS1 2-WIRE COPPER	$828.6486	$11.9038	xx.xxxx%	xx.xxxx
DS1 FIBER LOOP	$1,673.3774	$23.9864	xx.xxxx%	xx.xxxx
DS1 MIXED LOOP	$686.5317	$9.8443	xx.xxxx%	xx.xxxx
				$0.0000

SBC DS1 Circuit Equipment Investment Costs

Area A - Urban	Investment	Monthly Recurring Cost	Weighting	Weighted Monthly Recurrig Cost
DS1 2-WIRE COPPER	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
DS1 FIBER LOOP	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
DS1 MIXED LOOP	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
				$0.0000

Area B - Suburban	Investment	Monthly Recurring Cost	Weighting	Weighted Monthly Recurrig Cost
DS1 2-WIRE COPPER	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
DS1 FIBER LOOP	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
DS1 MIXED LOOP	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
				$0.0000

Area C - Rural	Investment	Monthly Recurring Cost	Weighting	Weighted Monthly Recurrig Cost
DS1 2-WIRE COPPER	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
DS1 FIBER LOOP	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
DS1 MIXED LOOP	xx.xxxx	xx.xxxx	xx.xxxx%	xx.xxxx
				$0.0000

Staff's and SBC's Proposed DS3 Circuit Equipment Investment Costs

Schedule 7
Staff Exhibit 5.0
ICC Docket No. 02-0864
Public

Staff DS3 Equipment Investment Costs

Area A - Urban	Monthly Recurring Cost	Weighting	Weighted Monthly Recurring Cost
DS3 LOOP OC-3	$443.3376	xx.x%	xxx.xx
DS3 LOOP OC-12	$206.8599	xx.xx%	xxx.xx
DS3 LOOP OC-48	$185.8953	xx.xx%	xxx.xx
		Total	**$320.9058**

Area B - Suburban	Monthly Recurring Cost	Weighting	Weighted Monthly Recurring Cost
DS3 LOOP OC-3	$482.4035	xx.x%	xxx.xx
DS3 LOOP OC-12	$222.6586	xx.xx%	xxx.xx
DS3 LOOP OC-48	$185.8953	xx.xx%	xxx.xx
		Total	**$371.1529**

Area C - Rural	Monthly Recurring Cost	Weighting	Weighted Monthly Recurring Cost
DS3 LOOP OC-3	$529.6858	xx.x%	xxx.xx
DS3 LOOP OC-12	$242.9712	xx.xx%	xxx.xx
DS3 LOOP OC-48	$185.8953	xx.xx%	xxx.xx
		Total	**$455.1534**

SBC DS3 Circuit Equipment Investment Costs

Area A - Urban	Monthly Recurring Cost	Weighting	Weighted Monthly Recurring Cost
DS3 LOOP OC-3	xxx.xx	xx.x%	xxx.xx
DS3 LOOP OC-12	xxx.xx	xx.xx%	xxx.xx
DS3 LOOP OC-48	xxx.xx	xx.xx%	xxx.xx
		Total	xx.xx

Area B - Suburban	Monthly Recurring Cost	Weighting	Weighted Monthly Recurring Cost
DS3 LOOP OC-3	xxx.xx	xx.x%	xxx.xx
DS3 LOOP OC-12	xxx.xx	xx.xx%	xxx.xx
DS3 LOOP OC-48	xxx.xx	xx.xx%	xxx.xx
		Total	xx.xx

Area C - Rural	Monthly Recurring Cost	Weighting	Weighted Monthly Recurring Cost
DS3 LOOP OC-3	xxx.xx	xx.x%	xxx.xx
DS3 LOOP OC-12	xxx.xx	xx.xx%	xxx.xx
DS3 LOOP OC-48	xxx.xx	xx.xx%	xxx.xx
		Total	xx.xx

Staff's and SBC's proposed TELRIC and UNE Rates

Loop Type	Zone	Proposed TERLIC and UNE Rate In 02-0864				% Reduction in TELRIC	% Reduction in UNE Rate	Currently Effective UNE Rate
		Staff		SBC				
		TELRIC	UNE Rate	TELRIC	UNE Rate			
		(a)	(b)	(c)	(d)	[(c)-(a)]/(c)	[(d)-(b)]/(d)	
Analog 2w basic	A	3.67	4.23	x.xx	x.xx	x.xx%	x.xx%	2.59
	B	6.84	7.88	x.xx	x.xx	x.xx%	x.xx%	7.07
	C	8.16	9.39	x.xx	x.xx	x.xx%	x.xx%	11.40
Analog PBX Ground Start	A	3.67	4.23	x.xx	x.xx	x.xx%	x.xx%	2.64
	B	7.06	8.12	x.xx	x.xx	x.xx%	x.xx%	7.84
	C	9.24	10.64	x.xx	x.xx	x.xx%	x.xx%	12.38
Analog COPTS Coin	A	3.67	4.23	x.xx	x.xx	x.xx%	x.xx%	2.67
	B	7.08	8.15	x.xx	x.xx	x.xx%	x.xx%	8.09
	C	9.38	10.79	x.xx	x.xx	x.xx%	x.xx%	12.72
Analog EKL	A	3.67	4.23	x.xx	x.xx	x.xx%	x.xx%	2.95
	B	7.42	8.54	x.xx	x.xx	x.xx%	x.xx%	12.18
	C	11.08	12.76	x.xx	x.xx	x.xx%	x.xx%	17.92
Analog 4w	A	7.35	8.46	x.xx	x.xx	x.xx%	x.xx%	4.08
	B	14.22	16.37	x.xx	x.xx	x.xx%	x.xx%	16.82
	C	19.02	21.89	x.xx	x.xx	x.xx%	x.xx%	26.63
160 Kbps (ISDN-BRI)	A	3.67	4.23	x.xx	x.xx	x.xx%	x.xx%	2.71
	B	7.29	8.39	x.xx	x.xx	x.xx%	x.xx%	8.88
	C	10.48	12.06	x.xx	x.xx	x.xx%	x.xx%	13.68
1.544 Mbps (DS1)	A	21.72	25.00	x.xx	x.xx	x.xx%	x.xx%	73.46
	B	27.67	31.85	x.xx	x.xx	x.xx%	x.xx%	61.45
	C	37.27	42.89	x.xx	x.xx	x.xx%	x.xx%	61.56
ADSL/HDLS 2w Compatible	A	3.67	4.23	x.xx	x.xx	x.xx%	x.xx%	2.59
	B	7.17	8.25	x.xx	x.xx	x.xx%	x.xx%	7.07
	C	10.54	12.13	x.xx	x.xx	x.xx%	x.xx%	11.40
ADSL/HDLS 4w Compatible	A	7.35	8.46	x.xx	x.xx	x.xx%	x.xx%	4.08
	B	14.34	16.50	x.xx	x.xx	x.xx%	x.xx%	16.82
	C	21.07	24.25	x.xx	x.xx	x.xx%	x.xx%	26.63
DS3 Digital Loop	A	324.71	373.72	x.xx	x.xx	x.xx%	x.xx%	
	B	391.96	451.11	x.xx	x.xx	x.xx%	x.xx%	
		510.74	587.82	x.xx	x.xx	x.xx%	x.xx%	
Note:								
(1) SBC's proposed Shared & Common Factor:				xx.xx%				
(2) Staff's Shared & Comon Factor:				10.74%				
(3) Staff's Uncollectible Factor:				3.93%				
(4) Currently Commisson Approved Shared & Common Factor:				34.55%				

Staff's and SBC's Proposed TELRIC

Loop Types	Area	SBC	Staff	% Reduction
		(a)	(b)	[(a)-(b)]/(a)
Analog 2w basic	A	x.xx	$3.67	x.xx%
Analog 2w basic	B	x.xx	$6.84	x.xx%
Analog 2w basic	C	x.xx	$8.16	x.xx%

Sensitivity Analysis

(A) The would-be TELRIC if SBC's input values in each group were replaced with Staff's proposed input values

Loop Types	Area	FILL Factors[1]	Depreciation Lives[2]	Cost of Capital Factors[3]	Labor Time[4]	R/B Percentage[5]	DLC EFI Factors[6]	DLC RT Common Factor[7]	INSTALLATION Factors[8]	Crossover[9]	Sales Tax[10]	FDI Fill[11]
Analog 2w basic	A	5.9567	8.2843	7.1966	8.4470	8.4750	8.7837	8.8217	8.5121	8.7578	8.8161	8.6700
Analog 2w basic	B	11.1265	16.5695	14.5715	17.2389	17.3381	16.0916	16.9050	16.9597	15.6008	17.5816	17.4533
Analog 2w basic	C	13.3116	19.1781	16.9358	20.0051	20.1261	18.3448	19.4149	19.6759	19.4811	20.3255	20.2719

(B) Percentage of Sensitivity:

Loop Types	Area	FILL Factors[1]	Depreciation Lives[2]	Cost of Capital Factors[3]	Labor Time[4]	R/B Percentage[5]	DLC EFI Factors[6]	DLC RT Common Factor[7]	INSTALLATION Factors[8]	Crossover[9]	Sales Tax[10]	FDI Fill[11]
Analog 2w basic	A	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%
Analog 2w basic	B	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%
Analog 2w basic	C	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%	x.xxxx%

[1] Fill Factors: building terminal, feeder/distribution cable, installation of feeder/distribution cable, DLC Chassis, and DLC plug in.

[2] Depreciation Lives: Depreciation lives of the various elements in the Input tab of the CAPCS Tool.

[3] Cost of Capital Factors: Cost of Money, Cost of Debt, and Debt/equity Ratio.

[4] Labor Time: Labor time for NID/Drop Wire and labor time for Distribution Terminal.

[5] R/B Percentage: Residenitial and business percents.

[6] DLC EFI Factors: EFI factors for DLC-RT hardwire and plug in unit.

[7] DLC-RT Common Factor: A factor of 75% applied to DLC-RT Common investment.

[8] Installation Factors: Copper and fiber cable installation factors.

[9] Crossover: Fiber-Copper Crossover length.

[10] Sales Tax: Sales tax rate.

[11] FDI Fill: formulae for the FDI fill factor.