



December 20, 2002

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**SOUTH DAKOTA PUBLIC
UTILITIES COMMISSION**

MARY S. HOBSON
Direct (208) 387-4277
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VIA OVERNIGHT DELIVERY

Debra Elofson, Executive Director
SD Public Utilities Commission
500 East Capitol
Pierre, SD 57501

Re: Docket No. TC01-098

Dear Ms. Elofson:

Enclosed please find the original and ten copies of the Supplemental Direct Testimony of Teresa K. Million and Exhibits TKM-01SUP and TKM-02SUP. Also enclosed is an original and ten copies of a compact disc containing 1) Qwest's SCM model, cost outputs, and documentation; 2) Qwest's high capacity loop study (Study ID# 6430A); 3) Qwest's high capacity loop model; 4) Qwest's collocation study (Study ID# 6465A); 5) Qwest's collocation model and 6) updated exhibits to the testimony of Teresa K. Million (Exhibits TKM-01SUP and TKM-02SUP). All items are being served on the parties by overnight mail and an electronic version of the Supplemental Testimony and Exhibits is also being provided by email.

Thank you for your consideration of this matter.

Very truly yours,

MARY S. HOBSON RCH

Mary S. Hobson

:blg
Enclosures

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 20th day of December, 2002, the foregoing **Supplemental Direct Testimony of Teresa K. Million and Exhibits TKM-01SUP and TKM-02SUP** were filed and served upon the following parties as follows:

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debra.elfofson@state.sd.us		

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South Dakota Public Utilities Commission	_____	U. S. Mail
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Facsimile: (605) 773-3809		
harlan.best@state.sd.us		
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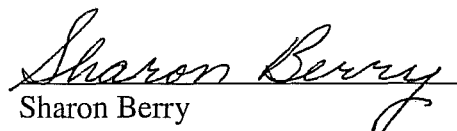
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Sharon Berry
Qwest Docket Manager



December 20, 2002

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Midcontinent Communications
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Pierre, SD 57501-0160

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**SOUTH DAKOTA PUBLIC
UTILITIES COMMISSION**

Re: Docket No. TCI01-098

Dear Counsel:

This is to advise you that Qwest has filed an original and ten copies of the Supplemental Direct Testimony of Teresa K. Million and Exhibits TKM-01SUP and TKM-02SUP. Qwest has also filed an original and ten copies of a compact disc containing 1) Qwest's SCM model, cost outputs, and documentation; 2) Qwest's high capacity loop study (Study ID# 6430A); 3) Qwest's high capacity loop model; 4) Qwest's collocation study (Study ID# 6465A); 5) Qwest's collocation model and 6) updated exhibits to the testimony of Teresa K. Million (Exhibits TKM-01 Sup and TKM-02 Sup). All items are being served on the parties by overnight mail and an electronic version of the Supplemental Direct Testimony and Exhibits is also being provided by email.

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MARY S. HOBSON RCK

Mary S. Hobson
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Enclosures

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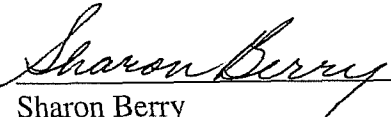
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Sharon Berry
Qwest Docket Manager

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA**

**IN THE MATTER OF DETERMINING PRICES)
FOR UNBUNDLED NETWORK ELEMENTS)
(UNEs) IN QWEST CORPORATION'S)
STATEMENT OF GENERALLY AVAILABLE)
TERMS (SGAT))**

DOCKET NO. TC01-098

**RECEIVED
DEC 23 2002
SOUTH DAKOTA PUBLIC
UTILITIES COMMISSION**

SUPPLEMENTAL DIRECT TESTIMONY OF

TERESA K. MILLION

ON BEHALF OF

QWEST CORPORATION

DECEMBER 23, 2002

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1 **I. IDENTIFICATION OF WITNESS**

2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS AND POSITION WITH**
3 **QWEST CORPORATION.**

4 A. My name is Teresa K. (Terri) Million. My business address is 1801 California Street, Room
5 2050, Denver, Colorado 80202. I am employed by Qwest Services Corporation as a
6 Director, Service Costs, in the Policy and Law Department. In this position, I am
7 responsible for preparing testimony and testifying about Qwest's cost studies in a variety of
8 regulatory proceedings.

9 **Q. HAVE YOU PREVIOUSLY APPEARED BEFORE THE SOUTH DAKOTA PUBLIC**
10 **UTILITIES COMMISSION?**

11 A. Yes. I submitted testimony and appeared before this Commission in Docket No. TC99-106
12 on the issue of unbundled network element ("UNE") deaveraging. In addition, I submitted
13 direct testimony in this docket (Docket No. TC01-098) on October 15, 2002.

14 **II. PURPOSE OF TESTIMONY**

15 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

16 A. The purpose of my testimony is to present Qwest's new Excel-based model for determining
17 switching investments. At the technical conference held in Denver on December 17, 2002
18 Qwest agreed to provide this new model, in part, because of the difficulty staff's consultants

1 were having in running Qwest's previously filed model on their personal computer ("PC")
2 operating system. In addition, my testimony provides corrected models and cost studies for
3 two of the elements presented in Qwest's cost studies filed on June 28, 2002. Those
4 elements are the "DS1 Capable Loop" element from the "Hicap" cost study (Study ID#
5 6430) and the "Each Additional Bay Space" element from the "Collocation" study (Study
6 ID# 6465). Exhibit TKM-01, filed with my October 15, 2002 testimony, has been revised
7 and is being resubmitted as Exhibit TKM-01SUP. This exhibit has been updated to reflect
8 the switching rates that result from the new model as well as the corrected rates for the DS1
9 Capable Loop and the collocation element.

10 **Q. ARE OTHER QWEST WITNESSES PROVIDING TESTIMONY REGARDING**
11 **COST ISSUES?**

12 A. No.

13 **Q. IS QWEST FILING COPIES OF EACH OF THESE MODELS OR STUDIES,**
14 **ALONG WITH DETAILED STUDY DOCUMENTATION?**

15 A. Yes. Qwest is filing its new switching cost model ("SCM"). The SCM produces switching
16 investments. Qwest is also providing documentation of the model and the switching cost
17 output that would result if the new model were to be incorporated into Qwest's Integrated
18 Cost Model ("ICM"). Qwest is not filing a new ICM, however, because the new version of
19 SCM is not integrated into the version of ICM which was filed with this Commission on
20 June 28, 2002. As a result, the ICM output provided for the switching elements is the result

1 of inserting the SCM investments into an ICM output workbook for purposes of calculating
2 the switching element costs, and not the result of having run the SCM model in ICM.

3 In addition, Qwest is filing corrected copies of the Hicap cost study (Study ID# 6430A) and
4 the Collocation cost study (Study ID# 6465A), as well as corrected versions of the
5 underlying models that support those studies. These models, cost studies and
6 documentation, as well as Exhibit TKM-01SUP, are contained on a compact disc ("CD")
7 that is being filed with this testimony.

8 III. THE SWITCHING MODEL

9 Q. WHY IS QWEST SUBMITTING A NEW SWITCHING MODEL AT THIS TIME?

10 A. As discussed above, during the technical conference held in Denver on December 17, 2002
11 Qwest was made aware that Staff and its consultants were having difficulty running the
12 version of the switching model that was filed on June 28, 2002. Qwest's previous switching
13 model was designed to run on either Windows 1997 or Windows NT, and was based on a
14 Visual Basic program. Staff's consultants are currently using a Windows 2000 system to
15 operate their PCs; however, Qwest's prior version of SCM was not designed to run in that
16 environment. Therefore, Qwest offered to replace the filed version of SCM with a recently
17 developed version that is Excel-based and designed to run in a more current Windows
18 environment. The new version of SCM is simpler to operate and is more transparent to the
19 user because auditing functions available in Excel spreadsheets may be used to follow

1 calculations through the model. Qwest believes that this new version of SCM eliminates
2 previous complaints that the older program-based versions of SCM were “black boxes.”

3 **Q. DOES THE NEW SCM MODEL RESULT IN RATES FOR THE SWITCHING**
4 **ELEMENTS THAT ARE DIFFERENT FROM THOSE FILED WITH THE OLD**
5 **VERSION OF SCM?**

6 A. Yes. As a result of changing SCM from a program-based model to an Excel-based model,
7 Qwest has had to make certain simplifying assumptions. For example, the new model is
8 completely contained within a single Excel workbook and fill factors are user inputs instead
9 of being computed individually for each switch in the study. The new SCM uses contract
10 prices that are input directly into the workbook, rather than computing the vendor discounts
11 in a separate spreadsheet as was the case with the old model. In addition, the partitioning
12 process is accomplished by applying “partitioning ratios” contained in the model to the
13 contract prices. The old model applied the vendor discounts on a switch-by-switch basis
14 after partitioning the costs among the components of the switch using the list prices of each
15 switch component. Finally, the investment in vertical feature hardware is computed within
16 the model by dividing the total feature hardware investment by total working lines. In the
17 old model the investment for each individual feature was computed separately and costs
18 were developed in a stand-alone study.

19 A comparison of the rates that result from the new SCM to the rates filed previously in this
20 proceeding shows, generally, that the cost of the port has increased while the per minute of

1 use (“MOU”) cost has decreased. This is due to the fact that the new version of SCM
2 includes the costs for features in the port cost, rather than developing those costs in a
3 separate stand-alone cost study. The results of the new model are provided on the attached
4 CD in a file entitled “ICM w SCM X1.01 Filed Dec 02 in SD.xls” in the tab labeled
5 “Summary of Results.” This file replicates outputs for the rate elements as they would
6 appear in ICM. The SCM model is also provided in a file entitled “SCM Core – Version
7 X1.01 – SD.xls.”

8 **Q. DOES THE NEW VERSION OF SCM CHANGE OTHER SWITCHING-RELATED**
9 **RATES PREVIOUSLY PRESENTED BY QWEST IN THIS PROCEEDING?**

10 A. Yes. As mentioned above, this version of SCM eliminates the need for the stand-alone
11 study for vertical features (Study ID# 6418) that was previously filed on June 28, 2002.
12 However, even with the new model, Qwest must still calculate, on a per-port basis, a
13 separate rate for capitalized lease costs associated with applications software, including the
14 right-to-use fees Qwest pays for the additional software needed to provision vertical features
15 in the switch. These capitalized lease costs are not included in the costs calculated by
16 Qwest’s SCM and are, therefore, contained in a separate study. This study (Study ID#
17 6416) was also filed on June 28, 2002 and should still be used to calculate the total cost of a
18 port. The capitalized lease cost produced by this study is \$0.52. Therefore, the total cost for
19 a DS0 analog line port, including capitalized lease costs, is \$2.54 (2.02 + .52).

1 The costs for premium 6-way ports and certain Centrex features are also still provided in the
2 separate, stand-alone study (Study ID# 6417) filed previously. This cost and the cost for
3 capitalized leases are added to the port costs produced by SCM to create the total costs for
4 premium analog and digital ports. See Exhibit TKM-02SUP for a summary of analog and
5 digital ports, and premium analog and digital ports.

6 **Q. DO YOU PROPOSE ANY NEW NONRECURRING COSTS FOR VERTICAL**
7 **FEATURES OR OTHER SWITCH ELEMENTS?**

8 A. No. The nonrecurring study (Study ID# 6454) that develops the costs for additional
9 activities performed by Qwest personnel in order to activate vertical features and provision
10 ports and trunks on the switch was filed previously on June 28, 2002. The nonrecurring
11 rates for these elements do not change as a result of the use of a new version of SCM.

12 **IV. DS1 CAPABLE LOOP CORRECTION**

13 **Q. PLEASE DESCRIBE THE ERROR THAT WAS DISCOVERED IN THE "HICAP"**
14 **MODEL THAT IMPACTED THE DS1 CAPABLE LOOP COST.**

15 A. Qwest uses the "Hicap" model to calculate the investments used in the "Hicap" cost study to
16 calculate the costs for DS1 and DS3 capable loops. In the model submitted to the
17 Commission on June 28, 2002, the worksheets reflecting the density group detail (i.e., in the
18 folders labeled "Output" and "Other") used a weighting for copper distribution facilities to
19 calculate the DS1 capable loop that represented DS0 distribution groups. To be correct, the

1 model should have used the DS1 weightings for the various density groups for copper
2 distribution facilities. The appropriate weightings are reflected in the file entitled
3 “SDDS10402v2.1ZONESninv” in the tab labeled “COPPERDIS.” Use of the correct DS1
4 weightings results in a decrease in the statewide average DS1 capable loop rate to \$125.44
5 from the rate of \$156.19 as originally filed. The corrected costs are contained on the CD
6 that accompanies this testimony in Study ID# 6430A.

7 **Q. ARE THE COSTS FOR ANY OF THE OTHER ELEMENTS CONTAINED IN THE**
8 **“HICAP” STUDY IMPACTED BY THIS CHANGE?**

9 A. No. This change impacts only the distribution portion of the cost for DS1 capable loops. It
10 has no impact on the cost for DS3 capable loops or DS1 capable feeder loops.

11 **V. COLLOCATION CORRECTION**

12 **Q. PLEASE DESCRIBE THE ERROR THAT WAS DISCOVERED IN THE**
13 **COLLOCATION MODEL THAT IMPACTED THE COST FOR EACH**
14 **ADDITIONAL BAY SPACE.**

15 A. A template Excel file is used when programming the collocation model. In the case of
16 South Dakota, a template specifically modified for Minnesota was inadvertently utilized in
17 programming the South Dakota collocation model. This template is a “mirror” of the Output
18 file produced and modified by the collocation model. Modifications were made to the
19 Minnesota template file in order to create an “Each Additional Bay Space” rate element that

1 specifically did not contain cable racking and aerial support costs. These changes were
2 made in response to a Minnesota compliance requirement that provided for recovery of these
3 costs in a separate rate element. Thus, in the collocation study (Study ID# 6465), filed on
4 June 28, 2002, in the tab labeled "E. 1.1, 2.1, 3.1 Summary" at cell C54, only the
5 miscellaneous and lighting costs (cells E30 and E47, tab "E. Expense Summary NR") were
6 used to calculate the cost for additional bays. Because there is no similar alternative for
7 recovering the costs for cable racking and aerial support in South Dakota, it is necessary for
8 the "Each Additional Bay Space" element to include those costs. Therefore, the corrected
9 collocation study (Study ID# 6465A) appropriately reflects the addition of cable racking and
10 aerial support (cells E41 and E43, tab "E. Expense Summary NR") to the formula at cell
11 C54 to calculate the cost for the additional bay element.

12 **Q. WHAT IS THE IMPACT OF CHANGING THE COLLOCATION MODEL TO**
13 **INCLUDE THESE COSTS FOR CABLE RACKING AND AERIAL SUPPORT?**

14 A. The "Each Additional Bay Space" rate element is used in cageless collocation as an
15 increment to the base assumption in the Space Construction rate element, which includes the
16 costs associated with the space required for two bays. The "Each Additional Bay Space"
17 element is used to either increase the nonrecurring space construction cost if more bay space
18 is requested, or decrease that cost if only one bay space is requested. The cost as originally
19 filed on June 28, 2002 would have increased or decreased the nonrecurring charge for space
20 construction cost by only \$471.75 if more or less bay space was required. The nonrecurring
21 space construction cost as filed in Study ID# 6465A is increased or decreased by an "Each

1 Additional Bay Space” cost of \$2,496.64. This change also impacts the monthly recurring
2 cost of an additional bay, changing it from \$0.87 to \$4.62.

3 **VI. CONCLUSION**

4 **Q. PLEASE SUMMARIZE YOUR TESTIMONY.**

5 A. As agreed by the participants at the technical conference on December 17, 2002, Qwest is
6 filing its new switching cost model. Corrected costs, including updated studies and models,
7 are being filed for the DS1 Capable Loop element and the additional bay element for
8 Cageless Collocation. In addition to the cost studies and models filed previously in this
9 docket, the Commission should rely on the data submitted with this testimony, as
10 summarized in Exhibit TKM-01SUP, to set prices for unbundled network elements in South
11 Dakota.

12 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

13 A. Yes, it does.

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF SOUTH DAKOTA**

IN THE MATTER OF DETERMINING PRICES) DOCKET NO. TC01-098
FOR UNBUNDLED NETWORK ELEMENTS)
(UNEs) IN QWEST CORPORATION'S)
STATEMENT OF GENERALLY AVAILABLE)
TERMS (SGAT))

EXHIBITS OF

TERESA K. MILLION

QWEST CORPORATION

DECEMBER 23, 2002

INDEX OF EXHIBITS

EXHIBIT

DESCRIPTION

TKM-01SUP

Summary of Results

TKM-02SUP

Switch Port Development Worksheet

SD Cost Study Summary

Qwest Corporation
Case No. TC01-098
Direct Testimony of Teresa K. Million
Exhibit TKM - 01SUP

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
6.0 Resale					
6.1 Wholesale Discount Rates					
6.1.1	Basic Exchange Residential Line Service	4.62%			Gude
6.1.2	Basic Exchange Business Line Service	7.63%			Gude
6.1.3	Intra-LATA Toll	6.65%			Gude
6.1.4	Package/Special Services (e.g., Centrex, ISDN, PBX, DSS, ISDN, Frame Relay Service, & other ACS)	8.88%			Gude
6.1.5	Listings, CO Features & Information Services	39.93%			Gude
6.1.6	Private Line	5.26%			Gude
6.1.7	Operator and DA Services	8.21%			Gude
6.1.8	Public Access Line (PAL)	0.00%			Gude
6.2 Customer Transfer Charge (CTC)					
6.2.1	CTC for POTS Service				
	First Line (Mechanized)		\$0.69	6454	Malone
	Each Additional Line (Mechanized)		\$0.14	6454	Malone
	First Line (Manual)		\$16.54	6454	Malone
	Each Additional Line (Manual)		\$2.76	6454	Malone
6.2.2	CTC for Private Line Transport Services				
	First Circuit		\$35.26	6454	Malone
	Additional Circuit, per circuit, same CSR		\$35.26	6454	Malone
6.2.3	CTC for Advanced Communications Services, per circuit		\$52.38	6454	Malone
7.0 Interconnection					
7.1 Entrance Facilities					
7.1.1	DS1	\$129.87	\$223.28	6466 / 6454	Easton
7.1.2	DS3	\$518.00	\$301.15	6466 / 6454	Easton
7.2 LIS EICT					
7.2.1	Per DS1	\$0.00	\$0.00		
7.2.2	Per DS3	\$0.00	\$0.00		
		Recurring Fixed	Recurring Per Mile	Nonrecurring	
7.3 Direct Trunked Transport					
7.3.1	DS1 Over 0 to 8 Miles	\$77.76	\$3.15	6466	Easton
	DS1 Over 8 to 25 Miles	\$77.76	\$3.15	6466	Easton
	DS1 Over 25 to 50 Miles	\$77.76	\$3.15	6466	Easton
	DS1 Over 50 Miles	\$69.25	\$2.14	6466	Easton
7.3.2	DS3 Over 0 to 8 Miles	\$442.99	\$31.21	6466	Easton
	DS3 Over 8 to 25 Miles	\$442.99	\$31.21	6466	Easton
	DS3 Over 25 to 50 Miles	\$442.99	\$31.21	6466	Easton
	DS3 Over 50 Miles	\$378.85	\$18.52	6466	Easton
		Recurring	Nonrecurring		
7.4 Multiplexing					
7.4.1	DS3 to DS1		\$340.00	6466 / 6454	Easton
7.4.2	DS1 to DS0		\$298.66	6466 / 6454	Easton
7.5 Trunk Nonrecurring Charges					
7.5.1	DS1 Interface, First Trunk		\$248.59	6454	Easton
7.5.2	DS1 Interface, Each Additional Trunk		\$6.02	6454	Easton
7.5.3	DS3 Interface, First Trunk		\$255.51	6454	Easton
7.5.4	DS3 Interface, Each Additional Trunk		\$12.95	6454	Easton
7.6 Local Traffic					
7.6.1	End office call termination, per Minute of Use		\$0.002080	SCM	Easton
7.6.2	Tandem Switched Transport Tandem Switching, per Minute of Use		\$0.001521	SCM	Easton
		Recurring Fixed	Recurring Per Mile	Nonrecurring	
7.6.3	Tandem Transmission, per Minute of Use				
	0 to 8 Miles	\$0.001290	\$0.000028	6466	Easton
	8 to 25 Miles	\$0.001290	\$0.000028	6466	Easton
	25 to 50 Miles	\$0.001290	\$0.000028	6466	Easton
	Over 50 Miles	\$0.001152	\$0.000018	6466	Easton
		Recurring	Nonrecurring		
7.7 Local Traffic - FCC - ISP Rate Caps					
7.7.1	MOU for 6 mo. June 14 - Dec. 13, 2001		N/A		
7.7.2	MOU for 18 mo. Dec. 14 - June 13, 2003		\$0.0010		
7.7.3	MOU for 36 mo. June 14, 2003 - June 13, 2006		\$0.0007		

SD Cost Study Summary

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
7.8 Miscellaneous Charges					
7.8.1 Expedited Charges (LIS Trunk)		Qwest's South Dakota Access Service Tariff			
7.8.2 Cancellation Charge (LIS Trunk)		Qwest's South Dakota Access Service Tariff			
7.8.3 Additional Testing (LIS Trunk)		Qwest's South Dakota Access Service Tariff			
7.8.4 Construction Charges		ICB	ICB		
7.9 Transit Traffic					
7.9.1 Local Transit		See Tandem Switching and Tandem Transmission Rates Above			
Local Transit Assumed Mileage	7	MILES			
7.9.2 IntraLATA Toll		Qwest's South Dakota Access Service Tariff			
IntraLATA Toll Assumed Mileage	7	MILES			
7.9.3 Jointly Provided Switched Access		Qwest's South Dakota Access Service Tariff			
7.9.4 Category 11 Mechanized Record Charge, per Record		\$0.001604		6432	Easton
8.0 Collocation					
8.1 All Collocation					
8.1.1 Collocation Entrance Facility, per Fiber Pair					
Standard Shared, per Fiber		\$6.81	\$666.68	6465	Easton
Cross Connect, Per Fiber		\$7.02	\$781.94	6465	Easton
Express, per Cable		\$109.11	\$9,741.28	6465	Easton
8.1.2 Cable Splicing					
Fiber - Per Set-Up			\$511.69	6465	Easton
Per Fiber Spliced			\$38.72	6465	Easton
8.1.3 -48 Volt DC Power Usage, per Ampere, per Month					
Power Plant, Less than 60 Amps		\$12.53		6465	Easton
Power Plant, Equal to or Greater than 60 Amps		\$9.76		6465	Easton
Power Usage, Less Than 60 Amps, per Amp		\$2.27		6465	Easton
Power Usage, More Than 60 Amps, per Amp		\$4.54		6465	Easton
8.1.4 AC Power Feed - per Amp per Month					
120 V		\$20.27		6465	Easton
208 V, Single Phase		\$35.14		6465	Easton
208 V, Three Phase		\$60.80		6465	Easton
240 V, Single Phase		\$40.55		6465	Easton
240 V, Three Phase		\$70.15		6465	Easton
480 V, Three Phase		\$140.30		6465	Easton
AC Power Feed - per Foot, per Month					
20 Amp, Single Phase		\$0.0151	\$8.14	6465	Easton
20 Amp, Three Phase		\$0.0187	\$10.10	6465	Easton
30 Amp, Single Phase		\$0.0163	\$8.78	6465	Easton
30 Amp, Three Phase		\$0.0223	\$12.06	6465	Easton
40 Amp, Single Phase		\$0.0191	\$10.33	6465	Easton
40 Amp, Three Phase		\$0.0263	\$14.21	6465	Easton
50 Amp, Single Phase		\$0.0227	\$12.25	6465	Easton
50 Amp, Three Phase		\$0.0317	\$17.10	6465	Easton
60 Amp, Single Phase		\$0.0257	\$13.85	6465	Easton
60 Amp, Three Phase		\$0.0365	\$19.69	6465	Easton
100 Amp, Single Phase		\$0.0318	\$17.15	6465	Easton
100 Amp, Three Phase		\$0.0496	\$26.78	6465	Easton
8.1.5 Inspector Labor, per Half Hour					
Regular Hours Rate			\$32.54	6465	Easton
After Hours Rate, minimum 3 hours			\$41.90	6465	Easton
8.1.6 Collocation Terminations					
8.1.6.1 DS0					
Cable Placement per 100 Pair Block		\$0.1254	\$222.83	6465	Easton
Cable Placement per Termination		\$0.0024	\$4.18	6465	Easton
Cable per 100 Pair Block		\$0.1899	\$337.43	6465	Easton
Cable per Termination		\$0.0026	\$4.62	6465	Easton
Blocks per 100 Pair Block		\$0.3288	\$584.42	6465	Easton
Blocks per Termination		\$0.0045	\$8.01	6465	Easton
Block Placement per 100 Pair Block		\$0.1313	\$233.30	6465	Easton
Block Placement per Termination		\$0.0018	\$3.20	6465	Easton
8.1.6.2 DS1					
Cable Placement per 28 DS1s		\$0.7189	\$388.16	6465	Easton
Cable Placement per Termination		\$0.0773	\$41.74	6465	Easton
Cable per 28 DS1s		\$0.7214	\$389.51	6465	Easton
Cable per Termination		\$0.0776	\$41.88	6465	Easton
Panel per 28 DS1s		\$0.4948	\$267.20	6465	Easton
Panel per Termination		\$0.0594	\$32.09	6465	Easton
Panel Placement per 28 DS1s		\$0.1470	\$79.35	6465	Easton
Panel Placement per Termination		\$0.0158	\$8.53	6465	Easton
8.1.6.3 DS3					

SD Cost Study Summary

Qwest Corporation
Case No. TC01-098
Direct Testimony of Teresa K. Million
Exhibit TKM - 01SUP

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
Cable per Termination		\$0.2663	\$143.78	6465	Easton
Cable Placement per Termination		\$0.4658	\$251.53	6465	Easton
Connector per Termination		\$0.4736	\$255.73	6465	Easton
Connector Placement per Termination		\$0.0367	\$19.82	6465	Easton
8.1.6.4 OCn Termination					
OCn Terminations, Per 12 Fibers		\$28.99	\$1,658.35	6507	Easton
OCn Additional Connector (if applicable)		\$0.84	\$450.93	6507	Easton
OCn Cable Racking Shared (per 12 Fibers)		\$26.85		6507	Easton
OCn Cable Racking Dedicated		\$2.79	\$1,507.33	6507	Easton
8.1.7 Security					
Per Employee, per Card		\$0.85		6465	Easton
Card Access per Employee, per Office		\$7.04		6465	Easton
Central Office Security Infrastructure		ICB	ICB		Easton
8.1.8 Central Office Clock Synchronization					
Synchronization – Composite Clock, per Port		\$8.49		6465	Easton
8.1.9 Space Availability Charge			\$340.32	6508	Easton
8.1.10 Collocation Space Reservation Fee	The charge will be 25% of the Non-Recurring Fee				
8.1.11 Collocation Space Option Administration Fee			\$1,146.74	6509	Easton
8.1.12 Collocation Space Option Fee - per sq. foot		\$2.00			Easton
8.1.13 Collocation Cable Augment QPF			\$1,409.96	6551	Easton
8.2 Virtual Collocation					
8.2.1 Quote Preparation Fee			\$4,469.55	6465	Easton
8.2.2 Maintenance Labor, per Half Hour					
Regular Hours Rate			\$28.54	6465	Easton
After Hours Rate			\$38.19	6465	Easton
8.2.3 Training Labor, per Half Hour					
Regular Hours Rate			\$28.54	6465	Easton
8.2.4 Equipment Bay -recurring, per Shelf		\$4.37		6465	Easton
8.2.5 Engineering Labor, per Half Hour					
Regular Hours Rate			\$30.79	6465	Easton
After Hours Rate			\$39.75	6465	Easton
8.2.6 Installation Labor, per Half Hour					
Regular Hours Rate			\$32.54	6465	Easton
After Hours Rate			\$41.90	6465	Easton
8.2.7 Floor Space Lease, per Square Foot		\$3.03		6465	Easton
8.2.8 DC Power Cable - per Feed					
20 Amp		\$8.37	\$4,521.83	6465	Easton
30 Amp		\$9.53	\$5,148.43	6465	Easton
40 Amp		\$11.52	\$6,218.08	6465	Easton
60 Amp		\$20.39	\$11,012.44	6465	Easton
100 Amp		\$34.40	\$18,573.95	6465	Easton
200 Amp		\$64.03	\$34,575.21	6465	Easton
300 Amp		\$100.69	\$54,367.53	6465	Easton
400 Amp		\$142.96	\$77,194.68	6465	Easton
8.3 Cageless Physical Collocation					
8.3.1 Quote Preparation Fee, Per Collocation Ordered			\$4,469.55	6465	Easton
8.3.2 Site Preparation Fee			ICB		
8.3.3 Space Construction					
2 Bays		\$39.45	\$21,299.26	6465	Easton
Each Additional Bay, Per Bay		\$4.62	\$2,496.64	6465A	Easton
DC Power Cable					
20 Amp		\$8.37	\$4,521.83	6465	Easton
30 Amp		\$9.53	\$5,148.43	6465	Easton
40 Amp		\$11.52	\$6,218.08	6465	Easton
60 Amp		\$20.39	\$11,012.44	6465	Easton
100 Amp		\$34.40	\$18,573.95	6465	Easton
200 Amp		\$64.03	\$34,575.21	6465	Easton
300 Amp		\$100.69	\$54,367.53	6465	Easton
400 Amp		\$142.96	\$77,194.68	6465	Easton

SD Cost Study Summary

Qwest Corporation
Case No. TC01-098
Direct Testimony of Teresa K. Millon
Exhibit TKM - 01SUP

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
8.3.4 Floor Space Lease, per Square Foot		\$3.03		6465	Easton
8.4 Caged Physical Collocation					
8.4.1 Quote Preparation Fee, Per Collocation			\$4,859.69	6465	Easton
8.4.2 Site Preparation Fee			ICB		
8.4.3 Space Construction					
Cage - Up to 100 sq. ft		\$68.56	\$37,019.76	6465	Easton
Cage - 101 to 200 sq. ft		\$60.82	\$32,842.03	6465	Easton
Cage - 201 to 300 sq. ft		\$75.11	\$40,554.00	6465	Easton
Cage - 301 to 400 sq. ft		\$78.69	\$42,491.50	6465	Easton
Fencing Credit - Cage Up to 100 Sq. Ft.		(\$10.35)	(\$5,590.02)	6465	Easton
Fencing Credit - Cage 101 Sq. Ft to 200 Sq. Ft		(\$12.91)	(\$6,969.92)	6465	Easton
Fencing Credit - Cage 201 Sq. Ft to 300 Sq. Ft		(\$14.50)	(\$7,828.84)	6465	Easton
Fencing Credit - Cage 301 Sq. Ft to 400 Sq. Ft		(\$16.01)	(\$8,645.52)	6465	Easton
DC Power Cable					
20 Amp		\$10.41	\$5,621.76	6465	Easton
30 Amp		\$11.47	\$6,192.23	6465	Easton
40 Amp		\$13.71	\$7,404.38	6465	Easton
60 Amp		\$22.64	\$12,222.79	6465	Easton
100 Amp		\$36.84	\$19,890.97	6465	Easton
200 Amp		\$68.57	\$37,026.82	6465	Easton
300 Amp		\$107.33	\$58,222.54	6465	Easton
400 Amp		\$153.10	\$82,668.28	6465	Easton
8.4.4 Floor Space Lease, per Square Foot		\$3.03		6465	Easton
8.4.5 Grounding - Cage					
2/0 AWG - per foot		\$0.0179	\$9.68	6465	Easton
1/0 AWG - per foot		\$0.0316	\$17.04	6465	Easton
4/0 AWG - per foot		\$0.0371	\$20.05	6465	Easton
350 kcmil - per foot		\$0.0479	\$25.88	6465	Easton
500 kcmil - per foot		\$0.0555	\$29.95	6465	Easton
750 kcmil - per foot		\$0.0846	\$45.66	6465	Easton
8.5 Adjacent Collocation			ICB		Easton
8.6 Remote Collocation					
8.6.1 Physical Remote Collocation					
Quote Preparation Fee			ICB		Malone
Space (per Standard Mounting Unit)		\$0.53	\$728.98	6503	Malone
FDI Terminations - per binder group (25 pr.)		\$0.32	\$531.18	6503	Malone
Power			See Collocation Rates		
8.6.2 Adjacent Remote Collocation			ICB		Malone
8.6.3 Virtual Remote Collocation					
Space		\$0.53	\$728.98	6503	Malone
FDI Terminations - per binder group (25 pr.)		\$0.32	\$531.18	6503	Malone
Power			See Collocation Rates		Malone
Flat Charge			\$36.96	6503	Malone
Engineering Rate, Per Half Hour			\$36.44	6503	Malone
Maintenance, per Half Hour			\$30.05	6503	Malone
Installation, per Half Hour			\$30.05	6503	Malone
Training, per Half Hour			\$30.05	6503	Malone
8.7 CLEC to CLEC					
8.7.1 Flat Charge (Design Engineering - No Cables)			\$815.31	6505	Easton
Fiber Flat Charge (Design Engineering - No Cables)			\$1,458.64	6505	Easton
8.7.2 Cable Racking, Per Foot, per Cable					
DS0		\$0.18445		6505	Easton
DS1		\$0.19724		6505	Easton
DS3		\$0.16761		6505	Easton
Fiber		\$1.52558		6505	Easton
8.7.3 Virtual Connections (if applicable - Connections only No Cables)					
DS0 (Per 100 Connections)			\$195.47	6505	Easton
DS1 (Per 28 Connections)			\$91.54	6505	Easton
DS3 (Per 1 Connection)			\$6.25	6505	Easton
8.7.4 Cable Hole (if Applicable)			\$470.49	6505	Easton

SD Cost Study Summary

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
8.7.5 CLEC to CLEC Cross-Connection			\$223.74	6454	Easton
8.8 ICDF Collocation			ICB		
8.9 Cancellation/Decommission		No Charge			
8.10 Microwave Entrance Facility		Under Development	Under Development		
9.0 Unbundled Network Elements (UNEs)					
9.1 Interconnection Tie Pairs					
9.1.1 Interconnection Tie Pairs (ITP)					
DS0 - Per Termination		\$0.50		6465	Easton
DS1 - Per Termination		\$1.46		6465	Easton
DS3 - Per Termination		\$17.42		6465	Easton
9.2 Unbundled Loops					
9.2.1 Analog Loops					
9.2.1.1 2-Wire Voice Grade - PLEASE SEE FOOTNOTE REGARDING OPTIMIZER PROGRAM RATES			See Installation options, Section 9.2.4		
Zone 1		\$20.18		6466	Easton
Zone 2		\$29.72		6466	Easton
Zone 3		\$38.15		6466	Easton
9.2.1.2 2-Wire Unbundled Loop Grooming		\$1.60		6466	Easton
9.2.1.3 4-Wire Voice Grade			See Installation options, Section 9.2.4		
Zone 1		\$40.33		6466	Easton
Zone 2		\$59.42		6466	Easton
Zone 3		\$76.27		6466	Easton
9.2.1.4 4-Wire Unbundled Loop Grooming		\$3.77		6466	Easton
9.2.2 Non-loaded Loops					
9.2.2.1 2-wire Non-loaded Loop		See Section 9.2.1.1	See Installation options, Section 9.2.4 and See also Section 9.2.2.3	6466	Easton
9.2.2.2 4-wire Non-loaded Loop		See Section 9.2.1.3	See Installation options, Section 9.2.4 and See also Section 9.2.2.3	6466	Easton
9.2.2.3 Cable Unloading/Bridge Tap Removal			\$663.17	6454	Easton
9.2.3 Digital Capable Loops					
9.2.3.1 Basic Rate ISDN / xDSL - I Capable / ADSL Compatible Loop - PLEASE SEE FOOTNOTE REGARDING OPTIMIZER PROGRAM RATES			See Installation options, Section 9.2.4 and See also Section 9.2.2.3		
Zone 1		\$20.18		6466	Easton
Zone 2		\$29.72		6466	Easton
Zone 3		\$38.15		6466	Easton
9.2.3.2 DS1 Capable Loop			See Installation options, Section 9.2.5		
Zone 1		\$123.62		6430A	Easton
Zone 2		\$124.40		6430A	Easton
Zone 3		\$127.20		6430A	Easton
DS3 Capable Loop			See Installation options, Section 9.2.6		
Zone 1		\$795.99		6430	Easton
Zone 2		\$831.62		6430	Easton
Zone 3		\$1,073.70		6430	Easton
9.2.3.3 OC - n Capable Loop			See Installation options, Section 9.2.7		
OC - 3		\$936.15		6431	Easton
OC - 12		\$1,363.89		6431	Easton
OC - 48		\$3,928.32		6431	Easton

SD Cost Study Summary

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
2-Wire Extension Technology		\$4.76		6466	Easton
2-W Ext. Tech Unbundled Loop Grooming		\$2.31		6466	Easton
9.2.4 Loop Installation Charges for 2 & 4 wire Analog / Non-Loaded, ISDN BRI Capable, xDSL - I Capable, and ADSL Compatible Loop where conditioning is not required.		See related monthly recurring Loop charges above.			
9.2.4.1 Basic Installation					
First			\$94.47	6454	Easton
Each Additional			\$78.73	6454	Easton
9.2.4.2 Basic Installation with Performance Testing					
First			\$200.12	6454	Easton
Each Additional			\$141.60	6454	Easton
9.2.4.3 Coordinated Installation with Cooperative Testing					
First			\$240.71	6454	Easton
Each Additional			\$141.60	6454	Easton
9.2.4.4 Coordinated Installation without Cooperative Testing					
First			\$101.67	6454	Easton
Each Additional			\$85.92	6454	Easton
9.2.4.5 Basic Install with Cooperative Testing					
First			\$200.12	6454	Easton
Each Additional			\$141.60	6454	Easton
9.2.5 DS1 / DS3 / OC-3 / OC - 12 / OC-48 Loop Installation Charges		See related monthly recurring Loop charges above.			
9.2.5.1 Basic Installation					
First			\$179.80	6454	Easton
Each Additional			\$122.82	6454	Easton
9.2.5.2 Basic Installation with Performance Testing					
First			\$315.96	6454	Easton
Each Additional			\$217.23	6454	Easton
9.2.5.3 Coordinated Installation with Cooperative Testing					
First			\$356.55	6454	Easton
Each Additional			\$217.23	6454	Easton
9.2.5.4 Coordinated Installation without Cooperative Testing					
First			\$189.06	6454	Easton
Each Additional			\$132.07	6454	Easton
9.2.5.5 Basic Install with Cooperative Testing					
First			\$315.96	6454	Easton
Each Additional			\$217.23	6454	Easton
9.2.6 Private Line to Unbundled Loop Conversions			\$37.36	6454	Easton
9.3 Subloop					
9.3.1 2-Wire Analog and Non-Loaded Distribution Loop			\$112.61	6454	Easton
Each Additional 2-Wire Distribution Loop (applies to both analog and non-loaded)			\$32.32	6454	Easton
Zone 1		\$11.26		6427	Easton
Zone 2		\$18.86		6427	Easton
Zone 3		\$21.44		6427	Easton
9.3.2 Intra-Building Cable Loop		\$0.52		6427	Easton
Intra-Building Cable No Dispatch First			\$58.18	6454	Easton
Intra-Building Cable No Dispatch Each Additional			\$24.27	6454	Easton
Intra-Building Cable Dispatch First			\$103.10	6454	Easton
Intra-Building Cable Dispatch Each Additional			\$34.29	6454	Easton
9.3.3 MTE Terminal Subloop Access					
Subloop MTE - POI Site Inventory (per request)			\$135.07	6454	Easton
MTE - POI Rearrangement of Facilities			ICB		
MTE - POI Construction of New SPOI		ICB			
9.3.4 DS1 Capable Feeder Loop			\$328.85		Easton
Each Additional DS1 Capable Feeder Loop			\$233.25		Easton
Zone 1		\$107.91		6430	Easton
Zone 2		\$108.69		6430	Easton

SD Cost Study Summary

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
Zone 3		\$111.50		6430	Easton
9.3.5 Field Connection Point					
Feasibility Fee/Quote Preparation Fee			\$1,343.90	6454	Easton
FCP Reclassification			\$595.50	6454	Easton
9.3.6 Construction Fee			ICB		
9.4 Line Sharing					
9.4.1 Shared Loop, per Loop		\$5.00	\$37.27	6454	Malone
9.4.2 OSS - per Line, per Month		\$3.21		6536	Albersheim
9.4.3 Reclassification Charge			ICB		
9.4.4 Splitter Shelf Charge		\$4.39	\$532.56	6506	Malone
9.4.5 Splitter TIE Cable Connections					
Splitter in the Common Area -- Data to 410 block		\$5.19	\$2,804.98	6506	Malone
Splitter in the Common Area -- Data direct to CLEC		\$5.52	\$2,981.61	6506	Malone
Splitter on the IDF - Data to 410 block		\$1.58	\$853.18	6506	Malone
Splitter on the IDF - Data direct to CLEC		\$3.11	\$1,679.72	6506	Malone
Splitter on the MDF - Data to 410 block		\$1.63	\$882.73	6506	Malone
Splitter on the MDF - Data direct to CLEC		\$3.69	\$1,991.96	6506	Malone
9.4.6 Engineering			\$1,300.49	6506	Malone
9.5 Network Interface Device (NID)		\$1.05	\$69.87	6466 / 6454	Easton
	Recurring Fixed	Recurring Per Mile	Nonrecurring		
9.6 Unbundled Dedicated Interoffice Transport (UDIT)					
9.6.1 DS0 UDIT			\$276.13	6454	Easton
DS0 Over 0 to 8 Miles	\$34.24	\$0.30		6466	Easton
DS0 Over 8 to 25 Miles	\$34.24	\$0.30		6466	Easton
DS0 Over 25 to 50 Miles	\$34.24	\$0.30		6466	Easton
DS0 Over 50 Miles	\$33.50	\$0.22		6466	Easton
9.6.2 DS1 UDIT			\$321.82	6454	Easton
DS1 Over 0 to 8 Miles	\$77.76	\$3.15		6466	Easton
DS1 Over 8 to 25 Miles	\$77.76	\$3.15		6466	Easton
DS1 Over 25 to 50 Miles	\$77.76	\$3.15		6466	Easton
DS1 Over 50 Miles	\$69.25	\$2.14		6466	Easton
9.6.3 DS3 UDIT			\$321.82	6454	Easton
DS3 Over 0 to 8 Miles	\$442.99	\$31.21		6466	Easton
DS3 Over 8 to 25 Miles	\$442.99	\$31.21		6466	Easton
DS3 Over 25 to 50 Miles	\$442.99	\$31.21		6466	Easton
DS3 Over 50 Miles	\$378.85	\$18.52		6466	Easton
9.6.4 OC-3 UDIT			\$321.82	6454	Easton
OC-3 Over 0 to 8 Miles	\$762.78	\$47.86		6466	Easton
OC-3 Over 8 to 25 Miles	\$762.78	\$47.86		6466	Easton
OC-3 Over 25 to 50 Miles	\$762.78	\$47.86		6466	Easton
OC-3 Over 50 Miles	\$762.78	\$68.44		6466	Easton
9.6.5 OC-12 UDIT			\$321.82	6454	Easton
OC-12 Over 0 to 8 Miles	\$2,163.94	\$95.01		6466	Easton
OC-12 Over 8 to 25 Miles	\$2,163.94	\$95.01		6466	Easton
OC-12 Over 25 to 50 Miles	\$2,163.94	\$95.01		6466	Easton
OC-12 Over 50 Miles	\$2,163.94	\$141.97		6466	Easton
9.6.6 OC-48 UDIT			\$321.82	6454	Easton
OC-48 Over 0 to 8 Miles	\$4,418.64	\$240.26		6466	Easton
OC-48 Over 8 to 25 Miles	\$4,418.64	\$240.26		6466	Easton
OC-48 Over 25 to 50 Miles	\$4,418.64	\$240.26		6466	Easton
OC-48 Over 50 Miles	\$4,418.64	\$363.55		6466	Easton
		Recurring	Nonrecurring		
9.6.7 UDIT DS0 Channel Performance					
DS0 UDIT Low Side Channelization		\$14.76		6466	Easton
DS1/DS0 MUX, Low Side Channelization		\$8.42	\$206.94	6454	Easton
9.6.8 Multiplexing					
DS1 to DS0		\$340.00	\$241.32	6466 / 6454	Easton
DS3 to DS1		\$298.66	\$3,011.44	6466 / 6454	Easton
9.6.9 Extended Unbundled Dedicated Interoffice Transport					
DS1 E-UDIT		\$129.87	\$381.24	6466 / 6454	Easton
DS3 E-UDIT		\$518.00	\$381.24	6466 / 6454	Easton

SD Cost Study Summary

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
OC-3 E-UDIT		\$936.15	\$381.24	6466 / 6454	Easton
Remote Node		\$491.28		6431	Easton
DS1 Remote Port		\$3.77	\$213.97	6431 / 6454	Easton
DS3 Remote Port		\$50.89	\$213.97	6431 / 6454	Easton
OC-12 E-UDIT		\$1,363.89	\$381.24	6466 / 6454	Easton
Remote Node		\$924.28		6431	Easton
DS1 Remote Port		\$13.07	\$213.97	6431 / 6454	Easton
DS3 Remote Port		\$34.23	\$213.97	6431 / 6454	Easton
OC3 Remote Port		\$107.50	\$213.97	6431 / 6454	Easton
OC-48 E-UDIT		\$3,928.32	\$381.24	6466 / 6454	Easton
Remote Node		\$3,331.15		6431	Easton
DS3 Remote Port		\$23.22	\$213.97	6431 / 6454	Easton
OC3 Remote Port		\$126.47	\$213.97	6431 / 6454	Easton
OC12 Remote Port		\$498.41	\$213.97	6431 / 6454	Easton
9.6.10 UDIT Rearrangement					
DS0 Single Office			\$169.61	6454	Easton
DS0 Dual Office			\$213.10	6454	Easton
High Capacity Single Office			\$232.73	6454	Easton
High Capacity Dual Office			\$260.79	6454	Easton
9.7 Unbundled Dark Fiber (UDF)					
9.7.1 UDF-Interoffice Facility (IOF) - Single Strand					
Order Charge, Per First Strand / Route / Order			\$535.86	6454	Easton
Order Charge, Each Additional Strand / Same Route			\$276.19	6454	Easton
Termination, Fixed Per Strand / Office		\$4.82		6457	Easton
Fiber Transport, Per Mile / Strand		\$56.40		6457	Easton
Fiber Cross-Connect Per Strand / Office		\$2.59	\$21.90	6457 / 6454	Easton
UDF-Loop Charges - Single Strand					
Order Charge, Per First Strand / Route / Order			\$535.86	6454	Easton
Order Charge, Each Additional Strand / Same Route			\$276.19	6454	Easton
Termination, Fixed Per Strand / Office		\$4.82		6457	Easton
Termination, Fixed Per Strand / Prem		\$3.63		6457	Easton
Fiber Loop, Per Route / Strand		\$158.39		6457	Easton
Fiber Cross-Connect Per Strand / Office		\$2.59	\$21.90	6457 / 6454	Easton
Extended Unbundled Dark Fiber (E-UDF) - Single Strand					
Order Charge, Per First Strand / Route / Order			\$535.86	6454	Easton
Order Charge, Each Additional Strand / Same Route			\$276.19	6454	Easton
Termination, Fixed Per Strand / Office		\$4.82		6457	Easton
Termination, Fixed Per Strand / Prem		\$3.63		6457	Easton
Fiber Loop, Per Route / Strand		\$158.39		6457	Easton
Fiber Cross-Connect Per Strand / Office		\$2.59	\$21.90	6457 / 6454	Easton
9.7.2 Initial Records Inquiry (IRI)					
Simple			\$256.27	6454	Easton
Complex			\$300.84	6454	Easton
9.7.3 Field Verification and Quote Preparation (FVQP)			\$1,025.51	6454	Easton
9.7.4 Field Verification (Engineering Verification)			\$352.26	6454	Easton
9.7.5 UDF-IOF Charges					
Order Charge per 1st Pair /Route/Order			\$535.86	6454	Easton
Order Charge each, Addl. Pair/Same Route			\$276.19	6454	Easton
Termination, Fixed Per Pair/Office		\$10.19		6457	Easton
Fiber Transport, per Mile /Pair		\$73.32		6457	Easton
Fiber Cross-Connect Per Pair/Office		\$5.18	\$21.90	6457 / 6454	Easton
9.7.6 UDF-Loop Charges					
Order Charge per 1st Pair /Route/Order			\$535.86	6454	Easton
Order Charge each, Addl. Pair/Same Route			\$276.19	6454	Easton
Termination, Fixed Per Pair/Office		\$9.95		6457	Easton
Termination, Fixed Per Pair/Pre		\$7.49		6457	Easton
Fiber Loop, per Route/Per Pair		\$205.91		6457	Easton
Fiber Cross-Connect Per Pair/Office		\$5.18	\$21.90	6457 / 6454	Easton
9.7.7 Extended Unbundled Dark Fiber (E-UDF)					
Order Charge per 1st Pair /Route/Order			\$535.86	6454	Easton
Order Charge each, Addl. Pair/Same Route			\$276.19	6454	Easton
Termination, Fixed Per Pair/Office		\$9.95		6457	Easton
Termination Fixed Per Pair/Prem		\$7.49		6457	Easton
Fiber Transport, per Route/Per Pair		\$205.91		6457	Easton
Fiber Cross-Connect Per Pair/Office		\$5.18	\$21.90	6457 / 6454	Easton
9.7.8 Dark Fiber Splice			\$673.51	6454	Easton

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	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
9.8 Shared Transport					
9.8.1 Per Minute of Use - TELRIC Based Rate		\$0.002151		SCM	Malone
9.9 Unbundled Customer Controlled Rearrangement Element					
9.9.1 DS1 Port		ICB	ICB		
9.9.2 DS3 Port		ICB	ICB		
9.9.3 Dial Up Access		ICB			
9.9.4 Attendant Access		ICB			
9.9.5 Virtual Ports			ICB		
9.10 Local Tandem Switching					
9.10.1 DS1 Local Message Trunk Port			\$224.45	6454	Malone
9.10.2 Trunk Group - First Trunk			\$219.27	6454	Malone
9.10.3 Message Trunk Group - Each Additional Trunk			\$24.88	6454	Malone
9.10.4 Per Minute of Use		\$0.002394		SCM	Malone
9.11 Local Switching					
9.11.1 Analog Line Side Port					
First Port			\$164.13	6454	Malone
Each Additional Port			\$102.04	6454	Malone
Analog Line Side Port with Features		\$2.54 (1)		SCM / 6416	Malone
Premium Analog Port with Features		\$5.02 (2)		SCM / 6416 / 6417	Malone
9.11.2 Vertical Features					
Basic Features					
10XXX Direct Dialed Blocking		\$0.0000			
Account Codes - per system		\$0.0000	\$81.28	6454	Malone
Attendant Access Line - per station line		\$0.0000	\$1.17	6454	Malone
Audible Message Waiting		\$0.0000	\$1.03	6454	Malone
Authorization Codes - per system		\$0.0000	\$243.08	6454	Malone
Auto Callback		\$0.0000			
Automatic Line, per station line		\$0.0000	\$0.35	6454	Malone
Automatic Route Selection - Common Equip. per system		\$0.0000	\$2,132.83	6454	Malone
Blocking of pay per call services		\$0.0000			
Bridging		\$0.0000			
Call Drop		\$0.0000	\$0.35	6454	Malone
Call Exclusion - Automatic		\$0.0000	\$1.03	6454	Malone
Call Exclusion - Manual		\$0.0000	\$0.68	6454	Malone
Call Forward Don't Answer - All Calls		\$0.0000			
Call Forwarding Incoming Only		\$0.0000	\$38.52	6454	Malone
Call Forwarding Intra Group Only		\$0.0000			
Call Forwarding Variable Remote		\$0.0000			
Call Forwarding: Busy Line (Expanded)		\$0.0000			
Call Forwarding: Busy Line (External)		\$0.0000			
Call Forwarding: Busy Line (External) Don't Answer		\$0.0000			
Call Forwarding: Busy Line (Overflow)		\$0.0000			
Call Forwarding: Busy Line (Overflow) Don't Answer		\$0.0000			
Call Forwarding: Busy Line (Programmable)		\$0.0000			
Call Forwarding: Busy Line/Don't Answer			\$38.52	6454	Malone
CF Don't answer/CF busy customer Programmable - per Line			\$1.03	6454	Malone
Call Forwarding: Busy Line/Don't Answer (Expanded)		\$0.0000			
Call Forwarding: Don't Answer		\$0.0000			
Call Forwarding: Don't Answer (Expanded)		\$0.0000			
Call Forwarding: Don't Answer (Programmable)		\$0.0000			
Call Forwarding: Variable		\$0.0000			
Call Forwarding: Variable - no call complete option		\$0.0000			
Call Hold		\$0.0000			
Call Hold/3-Way/Call Transfer		\$0.0000			
Call Park (Basic - Store & Retrieve)		\$0.0000			
Call Pickup		\$0.0000			
Call Transfer		\$0.0000			
Call Waiting Dial Originating		\$0.0000			
Call Waiting Indication - per timing state		\$0.0000	\$1.03	6454	Malone
Call Waiting Originating		\$0.0000			
Call Waiting Terminating - All Calls		\$0.0000			
Call Waiting Terminating - Incoming Only		\$0.0000			
Call Waiting/Cancel Call Waiting		\$0.0000			
CENTREX COMMON EQUIPMENT					
Centrex Plus DID numbers per number		\$0.0000	\$1,225.34	6454	Malone
Centrex Plus to Centrex Plus		\$0.0000			
Centrex Plus to IC Carrier		\$0.0000			
Centrex Plus to PBX/Key Blocked		\$0.0000			
Centrex Plus to PBX/Key Non-Blocked		\$0.0000			
CFBL - All Calls		\$0.0000			
CFBL - Incoming Only		\$0.0000			
CFDA Incoming Only		\$0.0000			
CLASS - Anonymous Call Rejection		\$0.0000			
CLASS - Call Waiting ID		\$0.0000			

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CLASS - Calling Name & Number		\$0.0000			
CLASS - Calling Number Delivery		\$0.0000			
CLASS - Calling Number Delivery - Blocking		\$0.0000			
CLASS - Continuous Redial		\$0.0000	\$1.28	6454	Malone
CLASS - Last Call Return		\$0.0000	\$1.29	6454	Malone
CLASS - Priority Calling		\$0.0000	\$1.22	6454	Malone
CLASS - Selective Call Forwarding		\$0.0000	\$1.28	6454	Malone
CLASS - Selective Call Rejection		\$0.0000	\$1.22	6454	Malone
Custom Ringing First Line (Short/Long/Short)		\$0.0000			
Custom Ringing First Line (Short/Short)		\$0.0000			
Custom Ringing First Line (Short/Short/Long)		\$0.0000			
Custom Ringing Second Line (Short/Long/Short)		\$0.0000			
Custom Ringing Second Line (Short/Short)		\$0.0000			
Custom Ringing Second Line (Short/Short/Long)		\$0.0000			
Custom Ringing Third Line (Short/Long/Short)		\$0.0000			
Custom Ringing Third Line (Short/Short)		\$0.0000			
Custom Ringing Third Line (Short/Short/Long)		\$0.0000			
Data Call Protection (DMS 100)		\$0.0000			
Dir Sta Sel/Busy Lamp Flid per arrangement		\$0.0000	\$0.35	6454	Malone
Directed Call Pickup with Barge-in		\$0.0000	\$20.48	6454	Malone
Directed Call Pickup without Barge-in		\$0.0000	\$20.48	6454	Malone
Distinctive Ring/Distinctive Call Waiting		\$0.0000	\$40.95	6454	Malone
Distinctive Ringing		\$0.0000			
EBS - Set Interface - per station line		\$0.0000			
Executive Busy Override		\$0.0000			
Expensive Route Warning Tone- per system		\$0.0000	\$73.05	6454	Malone
Facility Restriction Level - per system		\$0.0000	\$44.94	6454	Malone
Feature Display		\$0.0000			
Group Intercom- Per Line		\$0.0000	\$0.46	6454	Malone
Hot Line - per line		\$0.0000	\$1.03	6454	Malone
Hunting: Multiposition Circular Hunting		\$0.0000			
Hunting: Multiposition Hunt Queuing - per group		\$0.0000	\$39.20	6454	Malone
Hunting: Multiposition Series Hunting		\$0.0000			
Hunting: Multiposition with Announcement in Queue		\$0.0000	\$39.20	6454	Malone
Hunting: Multiposition with Music in Queue		\$0.0000	\$41.39	6454	Malone
Incoming Calls Barred		\$0.0000			
International Direct Dial Blocking		\$0.0000			
ISDN Short Hunt		\$0.0000	\$1.73	6454	Malone
Line Side Answer Supervision		\$0.0000			
Loudspeaker Paging - per trunk group		\$0.0000	\$179.33	6454	Malone
Make Busy Arrangements - per group		\$0.0000	\$0.68	6454	Malone
Make Busy Arrangements - per line		\$0.0000	\$0.68	6454	Malone
Message Center - per main station line		\$0.0000	\$0.35	6454	Malone
Message Waiting Indication Audible/Visual		\$0.0000			
Message Waiting Visual, per line		\$0.0000	\$0.35	6454	Malone
Music On Hold - per system		\$0.0000	\$23.50	6454	Malone
Network Speed Call		\$0.0000			
Night Service Arrangement		\$0.0000			
Outgoing Calls Barred		\$0.0000			
Outgoing Trunk Queuing		\$0.0000			
Privacy Release, per station line		\$0.0000	\$0.48	6454	Malone
Query Time, per station line		\$0.0000	\$0.35	6454	Malone
Speed Calling 1 Digit Controller		\$0.0000			
Speed Calling 1 Digit User		\$0.0000			
Speed Calling 1# List Individual		\$0.0000			
Speed Calling 2 Digit Controller		\$0.0000			
Speed Calling 2 Digit User		\$0.0000			
Speed Calling 2# List Individual		\$0.0000			
Speed Calling 30 Number		\$0.0000			
Speed Calling 8 Number		\$0.0000			
Station Camp-On Service - per main line, per line		\$0.0000	\$0.35	6454	Malone
Station Message Detail Recording (SMDR)		\$0.0000			
Three Way Calling		\$0.0000			
Time and Date Display		\$0.0000			
Time of Day Control for ARS - per system		\$0.0000	\$127.82	6454	Malone
Time of Day NCOS Update		\$0.0000	\$0.55	6454	Malone
Time of Day Routing - per line		\$0.0000	\$0.52	6454	Malone
Toll Restriction Service		\$0.0000			
Trunk Answer Any Station		\$0.0000			
Trunk Verification from Designated Station		\$0.0000	\$0.40	6454	Malone
UCD in hunt group - per line		\$0.0000	\$0.68	6454	Malone
UCD with Music After Delay		\$0.0000			
SMDR-P - SERVICE ESTABLISHMENT CHARGE,		\$0.0000	\$344.87	6454	Malone
SMDR-P - ARCHIVED DATA		\$0.0000	\$180.10	6454	Malone
Additional Premium Features					
CMS - SYSTEM ESTABLISHMENT - INITIAL			\$987.00	6454	Malone
CMS - SYSTEM ESTABLISHMENT - SUBSEQUENT			\$493.50	6454	Malone
CMS - PACKET CONTROL CAPABILITY, PER			\$493.50	6454	Malone
Conference Calling - Meet Me			\$43.15	6454	Malone

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	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
Conference Calling - Preset			\$43.15	6454	Malone
Conference Calling - Station Dial			\$46.36	6454	Malone
CLASS Call Trace, per attempt		\$1.48		6415	Malone
9.11.3 Subsequent Order Charge			\$13.78	6454	Malone
9.11.4 Digital Line Side Port (Supporting BRI ISDN)					
First Port			\$237.87	6454	Malone
Each Additional Port			\$237.87	6454	Malone
Digital Line Side Port with Features		\$13.41 (3)		SCM / 6416	Malone
Premium Port with Features		\$15.89 (4)		SCM / 6416 / 6417	Malone
9.11.5 Digital Trunk Ports					
DS1 Local Message Trunk Port		\$39.94	\$224.45	SCM / 6454	Malone
Message Trunk Group, First Trunk			\$174.29	6454	Malone
Message Trunk Group, Each Additional			\$48.63	6454	Malone
DS1 PRI ISDN Trunk Port		\$219.41	\$637.09	SCM / 6454	Malone
DID/PBX Trunk Port per DS0		\$2.38	\$213.24	SCM / 6454	Malone
9.11.6 DS0 Analog Trunk Port					
First Port		\$19.22	\$127.02	SCM / 6454	Malone
Each Additional			\$30.98	6454	Malone
9.11.7 Local Usage, per Minute of Use		\$0.002573		SCM	Malone
9.12 Local Switching - Market Based Rates	Available in Zone 1 Wire Centers				
9.13 Customized Routing					
9.13.1 Development of Custom Line Class Code – Directory Assistance or Operator Services Routing Only			\$320.87	6454	Malone
9.13.2 Installation Charge, per Switch – Directory Assistance			\$235.05	6454	Malone
9.13.3 All Other Custom Routing		ICB	ICB		Malone
9.14 Common Channel Signaling/SS7					
9.14.1 CCSAC STP Port		\$275.60	\$407.00	6466 / 6454	Malone
9.14.2 CCSAC Options Activation Charge					
Basic Translations					
First Activation, per Order			\$116.79	6454	Malone
Each Additional Activation, per Order			\$9.73	6454	Malone
CCSAC Options Database Translations					
First Activation per order			\$136.24	6454	Malone
Each additional Activation per order			\$58.36	6454	Malone
9.14.3 Signal Formulation, ISUP, Per Call Set-Up Request		\$0.0006722		6466	Malone
9.14.4 Signal Transport, ISUP, Per Call Set-Up Request		\$0.0002161		6466	Malone
9.14.5 Signal Transport, TCAP, per Data Request		\$0.0000239		6466	Malone
9.14.6 Signal Switching, ISUP, Per Call Set-Up Request		\$0.0010794		6466	Malone
9.14.7 Signal Switching, TCAP, Per Data Request		\$0.0008921		6466	Malone
9.15 Advanced Intelligent Network (AIN)					
9.15.1 AIN Customized Services (ACS)			ICB		Malone
9.15.2 AIN Platform Access (APA)		ICB	ICB		Malone
9.15.3 AIN Query Processing, per Query		ICB			Malone
9.16 Line Information Database (LIDB)					
9.16.1 LIDB Storage			No Charge		Malone
9.16.2 Line Validation Administration System Access (LVAS)			ICB		Malone
LIDB/ICNAM Line Record Initial Load					
Up to 20,000 Line Records			\$2,601.00		Malone
Over 20,000 Line Records			ICB		Malone
Mechanized Service Account Update, per Addition or Update Processed			ICB		Malone
Individual Line Record Audit			ICB		Malone
Account Group Audit			ICB		Malone
Expedited Request Charge for Manual			ICB		Malone
9.16.3 LIDB Query Service, per Query		\$0.0009184		6466	Malone
9.16.4 Fraud Alert Notification, per Alert		No Charge			Malone
9.17 BXX Database Query Service					
9.17.1 Basic Query, per Query		\$0.02080300		6466	Malone
9.17.2 POTS Translation		\$0.00000183		6466	Malone

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	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
9.17.3 Call Handling & Destination Feature		\$0.00000061		6466	Malone
9.18 ICNAM, Per Query		\$0.000826			Malone
9.19 Construction Charges			ICB		Easton
9.20 Miscellaneous Charge					
* Per 1/2 hour or fraction thereof					
* Additional Engineering – Basic			\$32.34	6454	Easton
* Additional Engineering – Overtime			\$40.00	6454	Easton
* Additional Labor Installation – Overtime			\$9.19	6454	Easton
* Additional Labor Installation – Premium			\$18.39	6454	Easton
* Additional Labor Other – Basic			\$28.19	6454	Easton
* Additional Labor Other – Overtime			\$37.65	6454	Easton
* Additional Labor Other – Premium			\$47.13	6454	Easton
* Testing and Maintenance – Basic			\$29.95	6454	Easton
* Testing and Maintenance – Overtime			\$40.00	6454	Easton
* Testing and Maintenance – Premium			\$50.06	6454	Easton
* Maintenance of Service – Basic			\$28.19	6454	Easton
* Maintenance of Service – Overtime			\$37.65	6454	Easton
* Maintenance of Service – Premium			\$47.13	6454	Easton
* Additional COOP Acceptance Testing – Basic			\$29.95	6454	Easton
* Additional COOP Acceptance Testing – Overtime			\$40.00	6454	Easton
* Additional COOP Acceptance Testing – Premium			\$50.06	6454	Easton
* NonScheduled COOP Testing - Basic			\$29.95	6454	Easton
* NonScheduled COOP Testing – Overtime			\$40.00	6454	Easton
* NonScheduled COOP Testing – Premium			\$50.06	6454	Easton
* NonScheduled Manual Testing – Basic			\$29.95	6454	Easton
* NonScheduled Manual Testing – Overtime			\$40.00	6454	Easton
* NonScheduled Manual Testing – Premium			\$50.06	6454	Easton
COOP Scheduled Testing - Loss (per test/per month)		\$0.08		6454	Easton
COOP Scheduled Testing - C Message Noise (per test/per month)		\$0.08		6454	Easton
COOP Scheduled Testing - Balance (per test/per month)		\$0.34		6454	Easton
COOP Scheduled Testing - Gain Slope (per test/per month)		\$0.08		6454	Easton
COOP Scheduled Testing - C-Notched Noise (per test/per month)		\$0.08		6454	Easton
MANUAL Scheduled Testing - Loss (per test/per month)		\$0.17		6454	Easton
MANUAL Scheduled Testing - C-Message Noise (per test/per month)		\$0.17		6454	Easton
MANUAL Scheduled Testing - Balance (per test/per month)		\$0.68		6454	Easton
MANUAL Scheduled Testing - Gain Slope (per test/per month)		\$0.17		6454	Easton
MANUAL Scheduled Testing - C-Notched Noise (per test/per month)		\$0.17		6454	Easton
Additional Dispatch			\$123.51	6454	Easton
Date Change			\$48.14	6454	Easton
Design Change			\$105.34	6454	Easton
Expedite Charge			ICB		Easton
Cancellation Charge			ICB		Easton
9.23 UNE Combinations					
9.23.1 UNE - P Line Splitting		See Line Sharing Charges - Section 9.4			Malone
9.23.2 UNE-P Conversion Non-Recurring Charges					
UNE-P POTS, CENTREX, Analog PBX Trunks, PAL					
Mechanized -					
First			\$0.69	6454	Malone
Each Additional			\$0.14	6454	Malone
Manual -					
First			\$16.54	6454	Malone
Each Additional			\$2.76	6454	Malone
UNE-P PBX DID Trunks					
First			\$30.09	6454	Malone
Each Additional			\$2.82	6454	Malone
UNE-P ISDN BRI					
First			\$31.97	6454	Malone
Each Additional			\$2.82	6454	Malone
UNE-P ISDN PRI, DSS per DS1 Facility			\$28.15	6454	Malone
UNE-P ISDN PRI, DSS - per Trunk					
First			\$30.09	6454	Malone
Each Additional			\$2.82	6454	Malone
9.23.3 UNE-P New Connection Non-Recurring Charges					
UNE-P POTS Centrex, Analog PBX Trunks, PAL					
Mechanized -					
First			\$55.44	6454	Malone
Each Additional			\$16.19	6454	Malone

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Manual -					
First			\$83.78	6454	Malone
Each Additional			\$18.81	6454	Malone
UNE - P PBX DID - per Trunk			\$165.28	6454	Malone
UNE - P 2B + D BRI ISDN			\$317.33	6454	Malone
UNE-P Trunks					
DSS Basic Trunk - In Only, Out Only, or			\$80.68	6454	Malone
DSS, ISDN PRI Adv. Trunk - In only w/DID			\$79.85	6454	Malone
& Hunting, or 2 Way w/DID, Hunting &					
Answer Supervision					
DSS, ISDN PRI Adv. Trunk - Out Only			\$81.10	6454	Malone
UNE-P PRI Configurations					
UNE-P PRI Dedicated PRI 23 + D			\$699.79	6454	Malone
UNE-P PRI Dedicated PRI 24B			\$675.86	6454	Malone
UNE-P PRI Dedicated PRI 23B + Back-Up			\$674.89	6454	Malone
DID Trunks					
UNE-P Complex Translation Digits			\$14.59	6454	Malone
Outpulsed Change Signaling					
UNE-P DID Complex Translations Signaling			\$34.05	6454	Malone
Change					
UNE-P DID Block Compromise			\$25.69	6454	Malone
UNE-P DID Group of 20 Numbers			\$34.18	6454	Malone
UNE-P DID Reserve Sequential # Block			\$25.54	6454	Malone
UNE-P DID Reserve Nonsequential TN			\$23.84	6454	Malone
UNE-P DID Trunk Terminations			\$52.16	6454	Malone
UNE-P DID Nonsequential TN			\$35.87	6454	Malone
UNE-P Complex Translation for Trunkside			\$143.91	6454	Malone
Termination					
9.23.4 UNE Combinations - Loop Mux Combination (LMC)					
9.23.4.1 ITP DS1/DS3		See Section 9.1			Easton
9.23.4.21 Loop MUX 2/4 Wire Analog, First			\$239.60	6454	Easton
Loop MUX 2/4 Wire Analog, Each Additional			\$156.36	6454	Easton
9.23.4.3 DS1 Loop MUX, First			\$303.07	6454	Easton
DS1 Loop MUX, Each Additional			\$221.90	6454	Easton
9.23.4.4 Private Line to Loop MUX Conversion			\$37.36	6454	Easton
9.23.4.5 LMC DS1 to DS0 Multiplexer			\$201.69	6454	Easton
LMC DS3 to DS1 Multiplexer			\$201.69	6454	Easton
DS1/DS0 MUX, Low Side Channelization		8.42		6466	Easton
9.23.5 Enhanced Extended Loop (EEL)					
9.23.5.1 EEL Link					
EEL DSO 2 Wire			\$260.73	6454	Easton
EEL DSO 2 Wire Each Additional			\$194.28	6454	Easton
Zone 1		See Section 9.2.1			Easton
Zone 2					Easton
Zone 3					Easton
EEL DSO 4 Wire			\$260.73	6454	Easton
EEL DSO 4 Wire Each Additional			\$194.28	6454	Easton
Zone 1		See Section 9.2.1			Easton
Zone 2					Easton
Zone 3					Easton
EEL DS1			\$319.65	6454	Easton
EEL DS1 Each Additional			\$238.47	6454	Easton
Zone 1		See Section 9.2.3			Easton
Zone 2					Easton
Zone 3					Easton
EEL DS3			\$344.51	6454	Easton
EEL DS3 Each Additional			\$263.33	6454	Easton
Zone 1		See Section 9.2.3			Easton
Zone 2					Easton
Zone 3					Easton
EEL OC-3, OC-12, and OC-48		See Section	\$344.51	6454	Easton

SD Cost Study Summary

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
EEL OC-3, Each Additional		9.2.3	\$263.33	6454	Easton
9.23.5.2 Private Line to EEL Conversion			\$37.36	6454	Easton
	Recurring Fixed	Recurring Per Mile	Nonrecurring		
9.23.6 EEL Transport					
DS0	See Section 9.6.1				Easton
DS0 Over 0 to 8 Miles					Easton
DS0 Over 8 to 25 Miles					Easton
DS0 Over 25 to 50 Miles					Easton
DS0 Over 50 Miles					Easton
DS1	See Section 9.6.2				Easton
DS1 Over 0 to 8 Miles					Easton
DS1 Over 8 to 25 Miles					Easton
DS1 Over 25 to 50 Miles					Easton
DS1 Over 50 Miles					Easton
DS3	See Section 9.6.3				Easton
DS3 Over 0 to 8 Miles					Easton
DS3 Over 8 to 25 Miles					Easton
DS3 Over 25 to 50 Miles					Easton
DS3 Over 50 Miles					Easton
OC-3	See Section 9.6.4				Easton
OC-3 Over 0 to 8 Miles					Easton
OC-3 Over 8 to 25 Miles					Easton
OC-3 Over 25 to 50 Miles					Easton
OC-3 Over 50 Miles					Easton
OC-12	See Section 9.6.5				Easton
OC-12 Over 0 to 8 Miles					Easton
OC-12 Over 8 to 25 Miles					Easton
OC-12 Over 25 to 50 Miles					Easton
OC-12 Over 50 Miles					Easton
OC-48	See Section 9.6.6				Easton
OC-48 Over 0 to 8 Miles					Easton
OC-48 Over 8 to 25 Miles					Easton
OC-48 Over 25 to 50 Miles					Easton
OC-48 Over 50 Miles					Easton
		Recurring	Nonrecurring		
9.23.7 EEL Transport MUX					
DS1 to DS0			\$268.83	6454	Easton
DS3 to DS1			\$268.83	6454	Easton
9.23.8 EEL Multiplexing					
DS1 to DS0		\$340.00		6466	Easton
DS3 to DS1		\$298.66		6466	Easton
9.23.9 EEL DS0 Channel Performance					
DS0 Low Side Channelization		\$14.76		6429	Easton
DS1/DS0 MUX, Low Side Channelization		\$8.42		6429	Easton
9.23.10 Concentration Capability		ICB			Easton
9.24 Unbundled Packet Switching					
9.24.1 Unbundled Packet Switch Customer Channel		\$24.66		6517	Malone
DSLAM Functionality		\$21.20		6517	Malone
9.24.2 Customer Channel and Shared Distribution Subloop			\$61.09	6454	Malone
Customer Channel and Unbundled Distribution			\$129.19	6454	Malone
Customer Channel and CLEC Provided Loop			\$61.09	6454	Malone
9.24.3 Unbundled Packet Switching Interface Port					
DS1		\$156.72	\$231.10	6517 / 6454	Malone
DS3		\$269.30	\$231.10	6517 / 6454	Malone
9.25 Loop Splitting	See Line Sharing Section				Malone
10.0 Ancillary Services					
10.1 Local Number Portability					
10.1.1 LNP Queries	See FCC Tariff #1 Section 20.3.1 & 20.3.3				Malone
10.1.2 LNP Managed Cuts					
Standard Managed Cuts per person per 1/2 Hr.			\$52.62	6454	Malone

SD Cost Study Summary

Qwest Corporation
Case No. TC01-098
Direct Testimony of Teresa K. Million
Exhibit TKM - 01SUP

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
Overtime Managed Cuts per person per 1/2 Hr.			\$68.47	6454	Malone
Premium Managed Cuts per person per 1/2 Hr.			\$84.34	6454	Malone
10.2 911/E911		No Charge			Malone
10.3 White Pages Directory Listings, Facility Based Providers					
10.3.1 Primary Listing		No Charge			Malone
10.3.2 Premium/Privacy Listings		General Exchange Tariff Rate, less wholesale discount			Malone
10.4 Directory Assistance, Facility Based Providers					Malone
10.4.1 Local Directory Assistance, Per Call		\$0.34			
10.4.2 National Directory Assistance, per Call		\$0.36			
10.4.3 Call Branding, Set- Up and Recording			\$10,500.00		
10.4.4 Loading Brand/Per Brand			\$175.00		
10.4.5 Call Completion Link, per call		\$0.09			
10.5 Directory Assistance List Information					Malone
10.5.1 Initial Database Load, per Listing		\$0.025			
10.5.2 Reload of Database, per Listing		\$0.020			
10.5.3 Daily Updates, per Listing		\$0.050			
10.5.4 One-time Set-Up Fee		\$77.44			
10.5.5 Media Charges for File Delivery					
Electronic Transmission		\$0.002			
Tapes (charges only apply if this is selected)		\$30.00			
Shipping Charges (for tape delivery)			ICB		
10.6 Toll and Assistance Operator Services, Facility Based					Malone
10.6.1 Option A – Per Message					
Operator Handled Calling Card		\$1.45			
Machine Handled Calling Card		\$0.60			
Station Call		\$1.50			
Person Call		\$3.50			
Connect to Directory Assistance		\$0.75			
Busy Line Verify, per Call		\$1.95			
Busy Line Interrupt		\$2.05			
Operator Assistance, per Call		\$0.50			
10.6.2 Option B – Per Operator Work Second and Computer					
Operator Handled, per Operator Work Second		\$0.028			
Machine Handled, per Call		\$0.25			
Call Branding, Set-Up & Recording			\$35,000.00		
Loading Brand/Per Brand			\$175.00		
10.7 Access to Poles, Ducts, Conduits and Rights of Way					
10.7.1 Pole Inquiry Fee, per Inquiry			\$443.19	6454	Easton
10.7.2 Innerduct Inquiry Fee, per Inquiry			\$308.94	6454	Easton
10.7.3 ROW Inquiry Fee			\$491.54	6454	Easton
10.7.4 ROW Doc Prep Fee			\$145.76	6454	Easton
10.7.5 Field Verification Fee, Poles per Pole			\$24.29	6454	Easton
10.7.6 Field Verification Fee, Manhole per Manhole			\$205.30	6454	Easton
10.7.7 Planner Verification, Per Manhole			\$16.26	6454	Easton
10.7.8 Manhole Verification Inspector Per Manhole			\$109.32	6454	Easton
10.7.9 Manhole Make-Ready Inspector, per Manhole			\$291.53	6454	Easton
10.7.10 Transfer of Responsibility			\$129.76		Easton
10.7.11 Make Ready				ICB	Easton
10.7.12 Pole Attachment Fee, per Foot, per Year					
Urban					
2002		\$3.36			Easton
2003		\$3.64			Easton
2004		\$3.93			Easton
Non-Urban					
2002		\$4.21			Easton
2003		\$4.93			Easton
2004		\$5.64			Easton
10.7.13 Innerduct Occupancy Fee, per Foot, per Year		\$0.28			Easton
10.7.14 Access Agreement Consideration			\$10.00		Easton
12.0 Operational Support Systems					
12.1 Development and Enhancements, per Order			\$5.00	6550	Albersheim
12.2 Ongoing Maintenance, per Order			\$1.40	6549	Albersheim
12.3 Daily Usage Record File, per Record		\$0.000441		6464	Malone

FCC Mandated Methodology -- this section is informational ONLY for State Commissions

SD Cost Study Summary

Qwest Corporation
Case No. TC01-098
Direct Testimony of Teresa K. Million
Exhibit TKM - 01SUP

	Wholesale Discount	Recurring	Nonrecurring	Cost Study Number	Witness
12.4 Trouble Isolation Charge			See Misc. Charges		Easton
17.0 Bona Fide Request Process					
17.1 Processing Fee			\$2,448.77	6454	Easton

- (1) Analog Line Side Port as adjusted = \$2.0198 (SCM-New Version) + \$0.52 (#6416 Capital Lease) = \$2.54
- (2) Premium Analog Line Side Port = \$2.54 (from above) + \$2.48 (#6417 Premium Port) = \$5.02
- (3) Digital Line Side Port as adjusted = \$12.8892 (SCM - New Version) + \$0.52 (#6416 Capital Lease) = \$13.41
- (4) Premium Digital Line Side Port = \$13.41 (from above) + \$2.48 (#6417 Premium Port) = \$15.89

FOOTNOTE: ZONE RATES USING OPTIMIZATION PROGRAM

Rates using the optimization program to determine zones are:

Zone 1	\$18.24
Zone 2	\$28.26
Zone 3	\$53.53

SUMMARIES OF:

- (1) Analog Line Side Port Rate Adjustment
- (2) Premium Analog Line Side Port Rate Adjustment
- (3) Digital Line Side Port Rate Adjustment
- (4) Premium Digital Line Side Port Rate Adjustment

Analog Line Side Port Rate Adjustment

Feature Cost Per Port Calculation

Source	Total Feature Costs	Category
Cost from DALPS 152 report January 2001	\$93,921.77	CENTRAL OFFICE FEATURES
Cost from DALPS 178 report January 2001	\$2,310.58	CENTREX 21 FEATURES
Cost from DALPS 174 report January 2001	\$9,656.67	CENTREX PLUS FEATURES
Cost from DALPS 144 report January 2001	<u>\$221.23</u>	CENTRON I
Total Cost for South Dakota	\$106,110.25	
Total South Dakota Lines from SCM	244,825	
Cap Lease Port - Monthly	<u>\$0.52</u>	(Study 6416)
Analog Line Side Port Cost	<u>\$2.02</u>	SCM
(1) Analog Line Side Port as Adjusted	<u><u>\$2.54</u></u>	
Add Premium to Adj'd Analog L.S. Port	<u>\$2.48</u>	(Study 6417))
(2) Premium Analog L.S. Port - as Adjusted	<u><u>\$5.02</u></u>	
ISDN BRI LINE SIDE PORT		
Cap Lease Port - Monthly	<u>\$0.52</u>	(Study 6416)
Digital Line Side Port Cost	<u>\$12.89</u>	SCM
(3) Digital Line Side Port as Adjusted	<u><u>\$13.41</u></u>	
Add Premium to Adj'd Digital L.S. Port	<u>\$2.48</u>	(Study 6417))
(4) Premium Digital L.S. Port - as Adjusted	<u><u>\$15.89</u></u>	