BEFORE THE NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

Docket No. DT 07-027

PUBLIC DIRECT TESTIMONY

OF ROBERT LOUBE, Ph.D.

ON BEHALF OF THE

OFFICE OF CONSUMER ADVOCATE

Bobert yoube

October 12, 2007

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1 I. INTRODUCTION 2 Q: Please state your name and business address. 3 A: My name is Robert Loube. My business address is 10601 Cavalier Drive, Silver 4 Spring, Maryland 20901. 5 Q: By whom are you employed and in what capacity? 6 A: I am Vice President of Rolka, Loube, Saltzer, Associates. 7 Q: On whose behalf are you testifying? 8 A: I am testifying on behalf of the Office of Consumer Advocate (OCA). 9 Please describe your professional qualifications. Q: 10 A: I received my Ph.D. in economics from Michigan State University in 1983. I 11 have worked for the Federal Communications Commission (FCC) where I helped 12 to establish the criteria for choosing the universal service economic cost model, 13 evaluated and modified telephone cost models, and determined the input values 14 used in the FCC's Synthesis model. I also was on the FCC staff of the Federal-15 State Joint Board on Separations. 16 While I worked at the Indiana Utility Regulatory Commission and the 17 Public Service Commission of the District of Columbia, I testified on the validity 18 and usefulness of a number of incremental and embedded cost studies, and on the 19 conditions required for competition in telephone markets. As a private consultant, 20 I have testified on behalf of the Pennsylvania Office of the Consumer Advocate in 21 the Pennsylvania Triennial Review proceeding and filed expert testimony on 22 behalf of the Staff of the South Carolina Public Service Commission. I have also 23 testified on behalf of the Maine Office of Public Advocate in the Maine Verizon-

1 MCI merger, the investigation into line sharing, the Verizon AFOR proceedings, 2 and the ongoing Verizon/FairPoint proceedings. I testified on behalf of the 3 Washington Attorney General in the Owest AFOR proceeding. I have lectured on 4 cost modeling and pricing in telecommunications at the NARUC Annual 5 Regulatory Studies Program. My vita is attached to this testimony as Exhibit RL-6 1. 7 II. **PURPOSE OF TESTIMONY** 8 9 **Q**: What is the purpose of your testimony? 10 A: The purpose of my testimony is to evaluate the proposed TDS AFOR plan (the 11 "Plan") on behalf of the OCA, whose statutory charge includes advocacy on 12 behalf of residential customers. I compare the proposed Plan to the criteria for 13 acceptance of an AFOR plan listed in NH RSA 374:3-b. 14 Q: Please summarize your testimony. 15 A: My testimony will examine the testimony of TDS witnesses, Mr. Reed and Mr. 16 Ulrich. Mr. Reed's testimony asserts that competitive cable, wireless and 17 broadband service is available to a majority of TDS retail customers. I will 18 demonstrate that his assertion is false. First, there are no cable providers offering 19 telephone services to any customers in the TDS service territories. Second, for 20 approximately 70 percent of customers who subscribe to wireless service, such 21 service does not compete (i.e., is not a substitute) with wireline service. Instead, wireless service complements wireline service. Third, broadband-based telephone 22 23 providers are not competitors of TDS' wireline service because there are

significant questions regarding the ability of these carriers to sustain their presence in the market. They face patent infringement suits, have closed their operations, face price squeeze strategies by major ILECs, and are not taken seriously by major cable providers. In addition, the Plan includes the authority to increase basic service rates by up to 10 percent per year for each of four years. Only carriers that have market power could sustain such increases. Thus, a carrier that requests such authority must believe that a majority of its customers do not have a competitive alternative available to them. With regard to the testimony of Mr. Ulrich, I note that the current regulatory regime allows TDS the flexibility it needs to meet the prices of future potential competitors, while at the same time ensuring that TDS' prices are above price floors necessary to maintain competition. I also point out that if TDS offers Unbundled Network Elements ("UNEs") and adopts the Verizon NH UNE rates, this policy would not increase the level of competition in the TDS service territories because the Verizon UNE rates are above most of the TDS basic service rates. III. THE TESTIMONY OF MR. MICHAEL C. REED Please summarize the testimony of Mr. Reed. The purpose of Mr. Reed's testimony is to demonstrate that each of the four TDS carriers meets the eligibility criteria required by RSA 374:3-b, III for approval of

an alternative form of regulation ("AFOR"). He focuses on the first criterion, the

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Q:

A:

1		availability of competitive wireline, wireless and broadband service to a majority
2		of retail customers in each exchange.
3	Q:	How did Mr. Reed establish that a majority of retail customers have
4		competitive alternatives available to them?
5	A:	Mr. Reed used a two-step approach for determining the amount of competition in
6		each carrier's study area. First, he determined whether a cable, wireless or
7		broadband alternative was available. Second, he determined whether TDS
8		customers were using those alternatives by measuring decreases in TDS access
9		lines, state access minutes and revenue.
10	Q:	How did Mr. Reed demonstrate the availability of competition from cable
11		providers?
12	A:	In Attachments A through D of his testimony, Mr. Reed provides an estimate of
13		the percentage of customers that are served by a cable provider. For each carrier,
14		his estimate is greater than 50 percent. However, for Merrimack County
15		Telephone ("MCT"), he does not provide this percentage by cable provider. This
16		failure is important due to the fact that one of the providers, MCT Cable, is a
17		subsidiary of TDS and therefore simply cannot be considered a competitor. By
18		combining information from several data responses, I am able to confirm that
19		Comcast serves greater than 50 percent of the customer base even though that

^{1 &}lt;< Begin Confidential

1		coverage is at a lower level than Mr. Reed's estimate. However, as I discuss
2		below, there are issues with considering access to cable service as a competitive
3		alternative to telephone service.
4	Q:	Are there any exchanges that do not have cable services?
5	A:	Yes. According to Mr. Reed's Attachment E, there is no cable service in
6		Kearsarge Telephone Company's ("KTC") Andover and Salisbury exchanges.
7		Thus, on the basis of cable service, KTC does not meet the first criterion that each
8		exchange must have an alternative available in order for the service territory's
9		AFOR Plan to be approved. RSA 374:3-b, III (a).
10	Q:	Is the existence of cable service proof of the existence of the provision of cable
11		telephone service?
12	A:	No. Cable service can exist as the provision of video services or video and data
13		services without the provision of telephone service.
14	Q:	Is there any evidence that verifies that a cable company provides telephone
15		service in any of the four TDS carrier's service territory?
16	A:	No. Even TDS states that it "is not aware of any communities within TDS study
17		area where a cable provider is offering telephone service at this time, although the
18		website of Comcast indicates digital phone is available in some exchanges." In
19		its petition to become party to this proceeding, Comcast rejects the TDS
20		insinuation that it may be offering service in any of the four study areas. Comcast
21		clearly states that "Comcast Phone does not possess any certificate of authority in
22		TDS Telecom territoryneither Comcast nor any of its affiliates offers any voice

² See Confidential Exhibit RL-2. ³ Company Response to OCA 1-46.

1		services whatsoever in the exchanges served by the TDS Petitioners, let alone
2		unlimited calling plans[thus] Comcast is unable to offer telecommunications
3		services there." ⁴
4	Q:	Are there any other competitive cable providers serving TDS providers that
5		may be offering telephone service?
6	A:	No. There are two other providers, MCT Cable and Charter. MCT Cable is a
7		TDS affiliate and therefore should not be considered a competitor of TDS
8		telephone companies. Charter's web page does not show any telephone offerings
9		for its New Hampshire territories, which only coincides with the service area of
10		Hollis Telephone company. ⁵
11	Q:	Is there any other evidence that suggests that cable providers are not offering
12		telephone service in the TDS service territories?
13	A:	Yes. First, the Petitioners have not ported any numbers to cable providers, even
14		though TDS is capable of porting numbers. Thus, no TDS customer has asked
15		TDS to move his current number to a cable provider. 6 Second, there are no cable
16		customers listed in the Petitioners' white pages. ⁷
17	Q:	How does Mr. Reed assert that customers can obtain telephone service
18		through broadband services?
19	A:	Mr. Reed asserts that customers can reach independent Voice over Internet
20		Protocol (VoIP) providers by purchasing either DSL from a TDS carrier or cable
21		modem service from a cable provider. The VoIP provider will provide the

⁴ Petition to Intervene of Comcast Phone of New Hampshire, LLC, Docket DT07-027, September 27, 2007, at 6. Comcast filed testimony on October 11, 2007 affirming these statements.

http://www.charter.com/vistors/products.aspx?productitem=3

Company Response to OCA 1-53.

Company Response to OCA 1-56.

1		telephone service over the broadband connection. In Attachment E, Mr. Reed
2		shows that customers have either the ability to use DSL or a cable modem in
3		every New Hampshire TDS exchange. However, Mr. Reed does not provide
4		information that shows that 50 percent or more of the TDS customers in each
5		exchange have access to a broadband provider. Instead, Mr. Reed provides the
6		average across the exchanges in each service territory.8
7	Q:	Has Mr. Reed identified any former TDS customers that have migrated to
8		VoIP providers.
9	A:	No. Even though Mr. Reed asserts that TDS has lost customers to VoIP
10		providers, he does not present any evidence regarding the number of customers
11		that have migrated to VoIP providers. In fact, TDS states that it cannot identify
12		the percent of customers that have become VoIP customers.9
13	Q:	Is it necessary to measure the number of VoIP customers in order to claim
14		that competitive VoIP service is available to a majority of the Petitioners'
15		customers in each exchange?
16	A:	No. However, it is easier to claim that customers perceive VoIP as a competitive
17		alternative if a number of those customers are using the service. Without any
18		indication of a number, the assertion that broadband telephony is a competitive
19		alternative is just an assertion without a foundation and should not be used to
20		determine that the Petitioner's service territories meet the strictly defined
21		eligibility standard required for the adoption of AFOR regulation.

⁸ Reed Testimony, Attachments A through D.
⁹ Company Response to Staff 1-11.

1	Q:	What is the basis for determining that broadband telephone service is not a
2		competitive alternative to the Petitioner's regulated services?
3	A:	There are several reasons why broadband telephone service is not a competitive
4		alternative to the Petitioner's regulated services: (1) recent court decisions that
5		have been unfavorable to Vonage, (2) Vonage's inability to maintain its stock
6		price, (3) the failure of SunRocket, (4) the carriers' dependency on broadband
7		connections, and (5) the pricing strategies of major ILECs and cable providers.
8	Q:	Please discuss the Vonage litigation.
9	A:	Vonage has recently lost two patent infringement cases at the federal district court
10		level. 10 These losses have restricted Vonage's ability to market its service,
11		required Vonage to pay royalties to its competitors, and may require Vonage to
12		pay significant penalties. While Vonage's stock price rebounded following the
13		settlement of its patent infringement suit with Sprint, the stock price is still only
14		\$2.57 compared to the initial public offering of \$17.11
15	Q:	How would these losses affect Vonage's operations?
16	A:	Royalties and penalties would reduce the profits of a company that has never
17		earned a positive profit. Customers may be scared off, increasing the cost of
18		attracting new customers, when that current cost is estimated to be \$287 per

¹⁰ "Patent Rulings Against Vonage Upheld," by Jeff St. Onge and Susan Decker, Washington Post, September 27, 2007; "Vonage Settles Patent Suit with Sprint," by Peter Svensson, Washington Post, October 8, 2007

11 "Patent Rulings Against Vonage Upheld," by Jeff St. Onge and Susan Decker, Washington Post,

September 27, 2007

1		customer. The company has also reduced its workforce by 10 percent and cut
2		its advertising and marketing budget by \$110 million a year. 13
3	Q:	Please discuss the failure of SunRocket.
4	A:	SunRocket was a VoIP provider. It ceased operations July 16, 2007, leaving
5		200,000 customers without service. SunRocket recommended to its customers
6		that they move to other VoIP providers, but SunRocket and Vonage disagree over
7		the use of SunRocket's customer list by Vonage. 14
8	Q:	Please discuss the pricing strategy of the major ILECs.
9	A:	The major ILECs, AT&T, QWEST and Verizon, can easily trap the VoIP
10		providers in a price squeeze. These ILECs control the price and the offering of
11		stand-alone DSL and they are major competitors of the VoIP providers.
12		Currently, AT&T and Verizon offer a bundle of unlimited local and long distance
13		telephone service and data service for \$59.99. 15 QWEST offers the same bundle
14		for \$64.98. 16 Given that Vonage charges \$24.99 for an equivalent package, if the
15		ILECs increase the cost of stand-alone DSL service above \$35 to \$40, Vonage
16		will be forced to reduce its rates or leave the market. Given that current estimates
17		of stand-alone DSL rates range between \$36 and \$49, Vonage's prospects do not
18		look promising. ¹⁷ In addition, AT&T and Verizon are required by the recent
19		mergers to sell stand-alone DSL for only a limited number of years. When the

¹² "Vonage Settles Patent Suit with Sprint," by Peter Svensson, Washington Post, October 8, 2007.

¹³ "Patent Rulings Against Vonage Upheld," by Jeff St. Onge and Susan Decker, Washington Post,

September 27, 2007;

14 "SunRocket Sues Vonage Over Use of Customer List," by Kim Hart, Washington Post, August 24, 2007.

15 http://www.att.com/gen/general?pid=9147;

http://www22.verizon.com/ForYourHome/NationalBundles/NatBundlesHome.aspx;

http://pcat.qwest.com/pcat/bundlesCustomize=res

¹⁷ Direct Testimony of Robert Loube on behalf of Public Counsel, In the Matter of the Petition of Qwest Corporation to be Regulated Under An Alternative Form of Regulation Pursuant to RCW 80.36.135, Washington Utilities and Transportation Commission, Docket No. UT-061625, filed February 14, 2007.

merger condition expires, customers of VoIP providers may find it very difficult to continue to purchase stand-alone DSL.

Q: Please discuss Comcast's pricing strategy.

A: Comcast's pricing strategy indicates that Comcast does not consider VoIP providers to be competitors because Comcast's prices for bundles that include voice service are higher than customers' total cost of using independent VoIP providers' services. For example, where Comcast offers telephone service, its voice and data package is set at \$69.00, while a Vonage customer would have to pay only \$67.94 (the sum of a stand-alone modem charge of \$42.95 and the Vonage rate of \$24.99). Second, the Comcast "triple play" offer (i.e, voice, data and internet) is \$99.00, while a Vonage customer could put together a triple package for \$81.83 (the sum of a data and video Comcast package of \$56.84 and the Vonage rate of \$24.99). Given that Comcast is not regulated and thus is free to change its prices, it is reasonable to conclude that Comcast does not consider the Vonage service a competitive alternative to the services Comcast provides.

Q: Are there any other factors that limit the market for VoIP telephone providers in the Petitioner's service territories?

A: Yes. The TDS companies do not sell DSL service on a stand-alone basis. Thus,
19 TDS customers would have to buy local service twice, once from the TDS carrier
20 and a second time from the VoIP provider, if the customer decided to use the
21 VoIP provider as her telephone service provider.

¹⁸ Company Response to OCA 1-2.

Q:	Are there any other indicators of the availability of VoIP telephone service in
	the Petitioner's service territories?
A:	Yes. In order to use a VoIP telephone service, it is first necessary to purchase a
	broadband connection. Such a connection is either DSL service from a telephone
	company or cable modem service from a cable company. Currently, only
	< <begin <sup="" confidential="" end="">19>></begin>
	subscribe to DSL service. I do not know the number of cable modem subscribers
	in the TDS service territories, and therefore cannot provide an estimate of the
	percentage of customers with access to VoIP telephone service in the TDS service
	territories. However, in the state of New Hampshire, as of June 2006, the
	percentage of wireline customers subscribing to a broadband connection was only
	36.9 percent. ²⁰
Q:	Please summarize your discussion of competitive broadband availability?
A:	Competitive broadband service is not available to majority of the retail customers
	in each exchange in every TDS service territory. First, Mr. Reed does not provide
	evidence at the exchange level to support this claim. Instead, he provides
	evidence that some service is available in each exchange and that the 50 percent is
	met on the service territory level. Second, Mr. Reed assumes that if a DSL
	service or cable modem service is available then competitive broadband service is
	available to the customers. However, the competitive broadband service is
	available only if the customer has already purchased the underlying required
	broadband connection. The best indicators of the purchase of broadband
	A: Q:

¹⁹ Company Response to OCA 2-1.
20 FCC, High-Speed Service for Internet Access: Status as of June 30, 2006, Table 13; FCC, Local Telephone Competition: Status as of June 30, 2006, Table 7.

1		connections support the conclusion that less than 50 percent of retail customers
2		have access to the competitive broadband service. In addition, a competitive
3		alternative is available only if the competitors appear to be able to sustain their
4		position in the market. Because competitors are struggling due to the results of
5		recent court decisions, and there is a price squeeze between the price of stand-
6		alone DSL and ILEC retail prices, it appears that these competitors may not able
7		to sustain their position in the market.
8	Q:	How does Mr. Reed demonstrate that wireless service is available to the
9		Petitioner's customers?
10	A:	In Attachments A through D to his testimony, Mr. Reed lists the number of
11		wireless carriers that he believes operate in each TDS service territory.
12	Q:	Does the fact that wireless service is available equate to the criterion of
13		available competitive wireless service?
14	A:	No. For wireless service to be competitive to TDS's service, customers must
15		consider these services to be substitutes. If customers consider wireless and
16		wireline services to be complements instead of substitutes, then wireless
17		availability is not the equivalent of the availability of competitive wireless
18		service.
19	Q:	What is the difference between substitutes and complements for a service?
20	A:	When services are substitutes one service would be used instead of the other
21		service. When services are complements one service would be used in
22		conjunction with the other service rather than as a replacement. More formally, if
23		services are substitutes, when the price of the first service increases, the quantity

demanded of the second service would increase as consumers replace the usage of 1 2 the first service with the second. If services are complements, when the price of 3 the first service increases, the demand for the second service decreases as 4 consumers conserve on the usage of both of the services. The classic example of 5 complements is peanut butter and jelly. However, if you are hungry enough these two delicacies can become substitutes. Thus, whether goods and services are 6 7 substitutes or complements can depend on how individuals use them. 8 Q: Has Mr. Reed demonstrated that a majority of the customers consider 9 wireless service a substitute for wireline service? 10 A: No. Mr. Reed asserts that some customers have cut the cord and use only wireless service, ²¹ but he has not provided an estimate of how many customers are 11 wireless only customers.²² He infers from the fact that some number of 12 13 customers are wireless only customers that wireless is a competitive substitute for wireline service. 23 As with the Petitioners' analysis of cable availability, this 14 15 inference is not substantiated. 16 Q: Are wireless and wireline services substitutes or complements? 17 A: For a small minority of customers, these services are substitutes. However, for 18 the overwhelming majority of customers, these services are complements. A 19 major indicator of the percent of customers for whom the services are substitutes 20 is the percent of households that have cut the cord. The latest national estimate of

wireless only homes concludes that approximately 12.8 percent of American

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²¹ Reed testimony, page 4, lines 14-16.

²² Company Response to Staff 1-10

²³ Company Response to Staff 1-5.

1		households have cut the cord. ²⁴ At the same time, approximately 86.2 percent of
2		American households have wireless service, and approximately 84.5 percent of
3		American households have wireline service. ²⁵ These data imply that over 70
4		percent of American households purchase both wireless and wireline services,
5		indicating that wireless is not a substitute (i.e., competitive) service for a majority
6		of customers.
7	Q:	Is there another indicator that a competitive alternative is not available to a
8		majority of the Petitioners' customers?
9	A:	Yes. The fact that the Petitioners' Plan includes the ability to increase local rates
10		by up to ten percent in any year indicates to me that the Petitioners do not believe
11		that competition is available for a majority of its customers, and that the
12		Petitioners are willing and able to exercise market power.
13	Q:	Does NH RSA 374:3-b allow carriers to propose plans that include a 10
14		percent increase in basic rates in each of the four years after a plan is
15		approved?
16	A:	Yes. The law allows a carrier to propose such a plan, but the law does not
17		mandate that the plan include such rate increase authority. A carrier can propose
18		a plan with a more limited rate increase authorization. Carriers that believe that
19		majority of their customers have competitive alternatives would realize that such
20		increases would reduce rather than increase their profits, and therefore realize that
21		it is counter-productive to request the authority to increase rates by up to 10
22		percent per year.

²⁴ http://www.cdc.gov/nchs/data/nhis/earlyrelease/wireless200705.pdf
²⁵ "Cellphone-only Homes Hit a Milestone," By Alex Mindlin, New York Times, August 27, 2007.

1	Q:	Why does a 10 percent rate increase indicate market power?
2	A:	Under the Department of Justice and Federal Trade Commission merger
3		guidelines, if a company can sustain a small but significant price increase then the
4		company has market power. ²⁶ The general guideline for determining a small but
5		significant price increase is a one-time five percent increase. ²⁷ The Petitioner's
6		Plan would allow for increases much greater than the guideline because the Plan
7		would allow a 10 percent increase for each of four years or as high as 46 percent
8		increase on a cumulative basis. On top of that increase, the Petitioners believe
9		that it can increase rates again in the fifth year of the Plan to a maximum
10		allowable rate of either \$14.39 or \$15.67. ²⁸ This additional increase could lead to
11		cumulative increases of 54, 55 and 114 percent in three of the Petitioner's 16
12		exchanges. ²⁹
13	Q:	Do you agree with Mr. Reed that the decrease in access lines indicates the
14		availability of competitive services to a majority of the Petitioner's retail
15		customers?
16	A:	No. Mr. Reed has not shown that the decrease in access lines indicates the
17		availability of competitive services to majority of retail customers. The decrease
18		in access could be occurring for several reasons. The decrease could have been
19		directly related to the increase in TDS DSL sales. The increase in DSL sales of
20		<< Begin Confidential End Confidential>> from December 2003 to
21		June 2007 more than offset the decrease of 3,617 access lines over that same

²⁶ http://www.usdoj.gov/atr/public/guidelines/horiz_book/hmg1.html; ²⁷ Gregory J. Werden, "Demand Elasticities in Antitrust Analysis," 66 Antitrust L.J. 363 (1998); ²⁸ Company Response to OCA 2-11. ²⁹ Exhibit RL-6

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period. ³⁰ Customers with multiple lines could have been reducing lines dedicated
to Internet dial-up service and replacing them with TDS DSL service. The trend
in customers reducing their additional lines has been recorded by the FCC on a
national level. Between 2001 and 2005, residential lines decreased by 19.6
million. ³¹ Non-primary residential decreased by 14.2 million, indicating that 72
percent of the reduction in residential lines is associated with a decrease in non-
primary lines. ³² The decrease in non-primary lines reduced the percentage of
non-primary lines of total residential from 21 percent in 2001 to 11 percent in
2005. ³³
In addition, TDS NH business access lines decreased faster than TDS NH
residential access lines from December 2004 to August 2007. ³⁴ This pattern
contradicts Mr. Reed's discussion because he focuses on cable, VoIP and wireless
service. These services are generally highlighted in discussions of residential
access line losses rather than discussions of business access line losses. On the
other hand business line losses are generally associated with CLECs providing
services using UNE loops. Because there are no CLECs operating in the TDS
service territories and because Mr. Reed's alleged competitors focus on
residential service, the expected result is that residential line losses should have
been substantially greater than the business line losses.

³⁰ Confidential Exhibit RL-3 and Exhibit RL-4.
31 Exhibit RL-5
32 Id.
33 Id.
34 Company Response to Staff 2-3 and Staff 2-4.

1 Q: Do you agree with Mr. Reed that the FCC's order granting ETC status to a 2 wireless carrier indicates that there is competition in the TDS NH service 3 areas? 4 No. The order confirms that RCC Minnesota, Inc. and RCC Atlanta, Inc. A: 5 (collectively,"RCC") provides the nine supported services and is eligible to receive universal service support.³⁵ The order does not limit the total number of 6 7 lines supported by the federal universal service fund. That is, a customer can 8 purchase a supported line from TDS and a supported line or line equivalent from 9 RCC. In that case, the customer would perceive the services as complements and 10 not as competitive services. 11 O: Please summarize your criticisms of Mr. Reed's testimony. 12 A: My major criticism of Mr.Reed's testimony is that the testimony failed to 13 demonstrate that competitive wireline, wireless, and broadband service is 14 available to a majority of the retail customers in each of the exchanges served by 15 the TDS companies. With regard to wireline service, there are no cable 16 companies or CLECs providing telephone service in any TDS company service 17 territory. With regard to wireless service, this service is still considered to be 18 complement to wireline service by over 70 percent of customers nationally, and 19 we do not have data specific to these exchanges. Therefore, wireless service is 20 not a competitive service to a majority of customers. With regard to broadband 21 service, fewer than 50 percent of New Hampshire customers purchase a 22 broadband connection, and therefore, less than a majority of customers have

³⁵ In the Matter of Federal-State Joint Board on Universal Service, RCC Minnesota, Inc., and RCC Atlanta, Inc., Petition for Designation as an Eligible Telecommunications Carrier in the State of New Hampshire, CC Docket No. 96-45, *Order*, Released October 7, 2005, DA 05-2673, ¶¶ 13-17.

access to a competitive broadband service. In addition, because the company is requesting the authority to increase rates by a maximum of 10 percent per year for the next four years, this indicates to me that the Petitioner does not believe that competition is available for a majority of its customers, and that the Petitioner is willing and able to exercise market power.

A:

Q:

A:

IV. THE TESTIMONY OF MR. TIMOTHY W. ULRICH

Please summarize the testimony of Mr. Timothy W. Ulrich.

Mr. Ulrich discusses the details of the TDS AFOR Plan. He highlights the need for additional pricing flexibility in the allegedly competitive environment. He notes that the Plan would facilitate a transition to a competitive telecommunications environment. He discusses the pricing provisions of the Plan including the impact of exogenous changes on prices. He describes a list of rules that he believes the TDS companies should adhere to during the course of the Plan. He suggests that the TDS companies are fulfilling their obligations as wholesale providers of telecommunications services and that the TDS carriers will continue to provide universal service at affordable rates.

Q: Do you agree with Mr. Ulrich that the TDS companies need additional pricing flexibility at the present time?

No. I disagree with Mr. Ulrich because, as I discussed above, competitive substitutes (i.e., competition) does not exist for a majority of TDS' retail customers at the present time. However, even if competition existed, Mr. Ulrich's claim is not supported by the TDS companies' conduct or the Commission's

1		oversight of that conduct. The carriers have rolled out three bundled service
2		offerings, Total Talk in 2004, Smart Pack and Smart Pack Lite in 2006. Since the
3		introduction of these services, the TDS companies have not requested any
4		changes in the rates for these bundles. ³⁶ The failure to request a change could
5		mean one of several things: the price was set perfectly; the alleged increase in
6		competition has not affected the market conditions since the time the rates were
7		proposed; or the regulatory process for changing the price is so burdensome that
8		TDS prefers to live with an improper price rather than attempt to request a
9		change.
10	Q:	Is there any indication that there is a high regulatory burden associated with
11		changing prices for bundles of telephone services?
12	A:	No. In the past, the Commission has acted promptly in its review of bundle
13		prices. For example, the TDS carriers filed a petition for Total Talk rates on
14		September 14, 2004 and the Commission issued Order No. 24,383 approving the
15		proposed rates on October 8, 2004.
16	Q:	Are the TDS carriers burdened by the fact that the Commission may
17		establish a price floor on bundle services related to the retail rate of
18		regulated basic services?
19	A:	No. Because TDS is the dominant firm in the market, the Commission must
20		ensure that its rates are not too low. Extremely low rates would create a subsidy
21		from basic service customers to customers purchasing the bundles. At the same
22		time, the extremely low rates would negatively impact the ability of potential

³⁶ Company Response to Staff Data Request No. 1-48.

competitors to enter the market. Ensuring that rates are above a certain price means that the Commission cannot rely on the market to establish reasonable rates.

Q: Will the proposed Plan facilitate the transition to a competitive

telecommunications market?

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A:

No. The proposed Plan will not facilitate the transition to a competitive market. Instead, it will retard the development of that market. This negative impact on competition occurs because the Plan allows the carriers to increase the rates for basic services and decrease rates for bundles. When competition enters formerly monopoly markets, the competitors have generally aimed their services at customers willing to buy a bundle of services. Very few of these competitors provide a service offering that competes with the basic local exchange service rate. Thus, an increase in the TDS basic service rates means that customers, who will have no alternative for that service when competitors enter the market, pay a lot more for their services, while TDS customers interested in purchasing bundles would receive discounts. This shift in relative prices requires basic service customers to provide the cash to support the carrier, while the burden of supporting the carrier is removed from other customers. Because it is one of the tasks of regulation to ensure that basic service rates reflect rates that would exist if there were competition in the basic service market, approval of a plan that allows for a shift in the relative rates not only denies the basic service customers the benefits of competition, but may in the long run deny non-basic service customers

1		the benefits of competition if the granting of price flexibility allows current
2		dominant carriers to prevent potential competitors from entering.
3	Q:	Do you agree with Mr. Ulrich that the Plan will maintain universal service at
4		affordable rates?
5	A:	No. The Plan allows the carriers to increase rates substantially, with the potential
6		for harming the provision of universal service at affordable rates. For example,
7		the Plan allows rates to increase by 7 to 8 percent in two exchanges, 28 to 30
8		percent in 8 exchanges, 39 to 42 percent in three exchanges and greater than 50
9		percent in three exchanges. ³⁷ The national increase in local rates for the period of
10		2000 to 2005 was only 8 percent. ³⁸ Thus, the Plan allows rates to increase
11		substantially faster than the national trend in all but two exchanges.
12	Q:	Do you agree with Mr. Ulrich's assertion that the Plan fulfills the TDS
13		companies' obligations as a supplier of wholesale services?
14	A:	Based upon the information provided by the Petitioners, I agree that the TDS
15		companies are fulfilling their current obligations. However, those obligations are
16		associated with carriers that provide services to customers who do not have
17		competitive alternatives. If the Plan is designed to facilitate the transition to a
18		competitive telecommunications market, then the Plan is insufficient because it
19		does not remove the exemption from the provision of UNEs that the TDS carriers
19 20		are operating under (i.e., the "Rural Exemption"). In particular, the TDS

³⁷ Exhibit RL-6
³⁸ FCC, Trends in Telephone Service, February 2007, Table 13.1 Average Residential Rates for Local Service in Urban Areas, 1986-2005.
³⁹ 47 U.S.C. 251(f)(1)(A).

1		companies do not have the duty to provide UNEs for loops or collocation services
2		to a requesting telecommunications carrier.
3	Q:	Are there any competitive local exchange companies ("CLECs") operating in
4		the Petitioners' service territories?
5	A:	No. TDS admits that "there are no CLECs serving customers in Petitioners'
6		territories.",40
7	Q:	Would TDS be able to fulfill its obligations if it offered UNEs and adopted
8		the current Verizon NH UNE rates?
9	A:	If TDS agreed to offer UNEs and adopt the current Verizon NH UNE rates that
10		would fulfill the duty to provide UNEs to competitors. However, it is important
11		to note that Verizon's rural UNE line charge is \$25.41 This rate is above all of the
12		TDS residential rates, and is higher than the business rate in 14 of 16 TDS
13		business exchanges. ⁴² Thus, competitors purchasing UNE loop services at the
14		rural rate would not be able to compete with TDS, and thus, the offer would not
15		alter the fact that majority of TDS' retail customers do not have competitive
16		services available to them. If a goal of the AFOR statute is to facilitate
17		competition, TDS retaining the rural exemption clearly contradicts with that goal
18		and will limit competitive alternatives for retail customers.

Company Response to OCA 1-20.
 Verizon New England Inc., NHPUC Tariff No. 84, Miscellaneous Network Services, Part M, Section 2, Page 5.
⁴² Exhibit RL-6.

1		V. CONCLUSIONS AND RECOMMENDATIONS
2	Q:	Please summarize your conclusions.
3	A:	I have concluded that:
4		Competitive wireline, wireless or broadband service is not available to
5		a majority of TDS retail customers.
6		• For the majority of TDS retail customers, wireline and wireless
7		services are not substitutes. Instead, these services are complements.
8		• Cable telephone service is not available in the NH TDS service
9		territories.
10		• Independent VoIP providers are not offering a viable competitive
11		service to the majority of TDS retail customers.
12		• The proposed allowed rate increases are much higher than the national
13		rate of increase and are anti-competitive. Such rate increases could
14		endanger the provision of universal service at affordable rates.
15		• The adoption of Verizon UNE rates by TDS would not support
16		competitive entry into the TDS markets.
17	Q:	Please summarize your recommendations.
18	A:	I recommend that the Commission reject the petition to establish an AFOR Plan
19		for the TDS companies because competitive wireline, wireless or broadband
20		service is not available to a majority of TDS retail customers, and because the
21		Plan endangers the provision of universal service at affordable rates.
22	Q:	Does this conclude your testimony?
23	A :	Yes.

Vita

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Education

Ph.D., Economics, Michigan State University, 1983 M.A., Economics, University of Massachusetts-Amherst, 1971 B.S., Economics, University of Maryland-College Park, 1969

Professional Experience

Utility Regulation

Vice President

Rolka Loube and Saltzer Associates

April 2007 to Present

Responsibilities include:

• Testified on behalf of the Maine Office of the Public Advocate in the Joint Application for Approvals Related to Verizon's Transfer of Property and Customer Relations to Company to be Merged with and into Fairpoint Communications, Inc. Maine Public Utilities Commission Docket No. 2007-67 on October 2, 2007.

Director, Economic Research

Rhoads & Sinon, LLC April 2001 to March 2007

Responsibilities include:

- Testified on behalf of the Washington Public Counsel in the Matter of the Petition of Qwest Corporation to be Regulated Under An Alternative Form of Regulation, WUTC Docket No. UT-061625, March 14, 2007.
- Filed rebuttal testimony on behalf of the Pennsylvania Office of Consumer Advocate in the 2006 Annual Price Stability Index/Service Price Index of Buffalo Valley Telephone Company, Conestoga Telephone & Telegraph Company, and Denver & Ephrata Telephone & Telegraph Company, PA PUC Docket No. P-0098142F1000, filed January 5, 2007.
- Testified on behalf of the Attorney General Michael A. Cox, In the Matter of the Notice by AT&T Michigan Pursuant to sections 304(d) and 310a of the Michigan Telecommunications Act of an increase to the rate for primary basic local exchange service in the amount not to exceed AT&T Michigan's intrastate end user line charge in effect on July 1, 2005, MPSC Case No. 15036, filed January 30, 2007.
- Prepared comments on behalf of the Pennsylvania Office of the Consumer Advocate, FCC Intercarrier Compensation Workshop and Solicitation of Comments on the Missoula Plan, Pennsylvania Public Utility Commission Docket No. M-000061972.
- Prepared an affidavit on behalf of the National Association of Utility Consumer Advocates (NASUCA) and the Maine Office of the Public Advocate, In the Matter of Jurisdictional Separations and Referral to the Federal-State Joint Board, CC Docket No. 80-286, filed August 22, 2006.
- Adviser to the Maryland office of the People's Counsel, In the Matter of Cavalier Telephone Midwest Atlantic for Breach of Interconnection Terms by Verizon Maryland, Inc., Case No. 9046.

- Testified on behalf of the Maine Office of Public Advocate in the Investigation Into Verizon Maine's Alternative Form of Regulation, Phase I, Docket No. 2005-155, October 17 and October 18, 2006.
- Prepared comments on behalf of the National Association of State Utility Consumer Advocates (NASUCA) In the Matter of the Federal-State Joint Board on Universal Service, CC Docket No. 96-45, filed March 27, 2006 (with David Gabel and the NASUCA Telecommunications Committee).
- Adviser to the Washington State Public Counsel in the Investigation of the Sprint-Nextel Merger, Washington Utilities and Transportation Docket No. UT-051291.
- Filed direct testimony on behalf of the Maine Office of Public Advocate in the Investigation Into Verizon Maine's Alternative Form of Regulation, Phase II, Docket No. 2005-155, January 13, 2006.
- Testified on behalf of the Maine Office of Public Advocate in the Investigation into Line Sharing, Maine Docket No. 2004-809, November 18, 2005.
- Adviser to the U.S. Department of Justice in United States of America v. Coastal Utilities, Inc., Case No. CV-404-90.
- Testified on behalf of the Maine Office of Public Advocate in Verizon Communications, Inc. and MCI, Inc., Review of Joint Application for Approval of Merger, Maine Docket No. 2005-154, September 29, 2005.
- Filed direct, rebuttal and surrebuttal testimony on behalf of the Office of Consumer Advocate in Pennsylvania Docket No. C-20027195, June 8, June 29, and July 11 2005.
- Filed a rebuttal declaration regarding price floor issues on behalf of The Utility Reform Network in re: Investigation on the Commission's Own Motion into Open Access and Network Architecture Development of Dominant Carrier Networks, Verizon UNE Phase, Investigation 93-04-

- 002, filed April 1, 2005.
- Filed a price floor declaration on behalf of The Utility Reform Network in re: Investigation on the Commission's Own Motion into Open Access and Network Architecture Development of Dominant Carrier Networks, Verizon UNE Phase, Investigation 93-04-002, filed January 28, 2005.
- Filed direct testimony on behalf of Public Counsel and AARP in re: WUTC v. Verizon, Docket No. UT-040788, before the Washington Utilities and Transportation Commission, December 17, 2004.
- Filed a rebuttal declaration on behalf of The Utility Reform Network in re: Investigation on the Commission's Own Motion into Open Access and Network Architecture Development of Dominant Carrier Networks, Verizon UNE Phase, Investigation 93-04-002, filed November 9, 2004
- Prepared a report on the State of Telecommunications Services in Nevada for the subcommittee to study telecommunications service in Nevada, August 2004,
- Filed a declaration on behalf of The Utility Reform Network in re: Investigation on the Commission's Own Motion into Open Access and Network Architecture Development of Dominant Carrier Networks, Verizon UNE Phase, Investigation 93-04-002, filed August 6, 2004
- Filed expert rebuttal testimony on behalf of the Staff of the South Carolina Commission in re: Implementation of requirements Arising from Federal Communications Commission Triennial UNE review: Local Circuit Switching for mass market customers, SC PSC Docket No. 2003-326-c.
- Testified on behalf of the Pennsylvania Office of Consumer Advocate in re: Investigation into the Obligations of Incumbent Local Exchange Carriers to Unbundle Network Elements, PA PUC Docket No. I-0030099.
- Prepared an Affidavit for the National Association of State Utility Consumer Advocates in the Matter of the Review of Commission's Rules Regarding The Pricing of Unbundled Network Elements And the Resale of Service by Incumbent Local Exchange Carriers, WC Docket No. 03-173 (with David Gabel).

- Provided expert advice to the Cities of Austin, Dallas, Fort Worth, and Hereford in Southwestern Bell Telephone Company's Filing To Establishing Surcharges Resulting From District Court Remand Of PUC Final Order In Docket No. 18509, SOAH Docket No. 473-03-1620, Texas PUC Docket No. 26719.
- Filed expert testimony on behalf of the Staff of the Nevada Public Utilities in The Petition of Nevada Bell for an Order commencing a proceeding to determine the costs and rates for unbundled network elements, Docket No. 00-7012
- Prepared comments for the National Association of State Utility Consumer Advocates in the Matter of Cost Review Proceeding for Residential and Single-Line Business Subscriber Line Charge Cap, FCC CC Docket No. 96-262 (with David Gabel)
- Technical Adviser to the Alabama Public Service Commission in the Generic Proceeding to Establish Prices for Interconnection Services and Unbundled Network Elements - Docket No. 27821
- Prepared reply comments for the Office of the People's Counsel of the District of Columbia In the Matter of Developing a Unified Inter-carrier Compensation Regime, FCC CC Docket No. 01-92.
- Assisted the Universal Service Administrative Company in managing the interstate common line and model support programs.

Industry Economist, GS 301-15 Federal Communications Commission May 1996 to April 2001

Responsibilities include:

- Established the criteria for choosing the universal service economic cost model;
- Evaluated and modified telephone cost models;

- Determined the input values used in telephone cost models;
- Served on the FCC staff of the Federal State universal service joint board;
- Developed and evaluated alternative universal service funding proposals;
- Developed and compared alternative jurisdiction separations allocators with regard to the impact of the allocators on state and federal jursidictional responsibilities;
- Reviewed orders of other divisions to ensure that those orders complement the tasks and mandates of the Accounting Policy Division;
- Conducted special studies for use by the Chairman, Commissioners, Bureau Chief or Division Chief
- Provided technical economic advice to the division legal staff regarding common carrier operations and regulatory policy.

Director, Office of Economics Public Service Commission of the District of Columbia, July 1993 to May 1996

Responsibilities include:

- Supervised the preparation of staff testimony in telephone, electric and gas utility cases.
- Represented the Commission on the Staff of Federal State Separations Joint Board.
- Prepared and presented testimony on the strategic approach to electricity demand side management and least cost planning principles.
- Represented the Commission on the National Association of Regulatory Utility Commissioners Communications Committee's universal service and access reform working groups.

Acting Director, Office of Economics Public Service Commission of the District of Columbia, February 1993 to July 1993

Responsibilities include:

- Prepared comments on FERC Notices of Proposed Rulemaking.
- Represented the Commission on the telephone quality of service and low-income program working groups.

Senior Telecommunications Economist Public Service Commission of the District of Columbia, May 1989 to the February 1993

Responsibilities include:

- Prepared and presented testimony regarding telephone rate structure, competition in telephone markets, embedded cost studies, and long run incremental cost studies.
- Represented the Commission on digital deployment and generic cost manual working groups.
- Represented the Commission on the staff of the 410B Joint Federal/State Conference on Open Network Architecture.
- Prepared comments on FCC Notices of Proposed Rulemaking.

Econometrician,

Indiana Utility Regulatory Commission,

March 1988 to May 1989

Responsibilities include:

- Developed electric energy and demand forecasts.
- Supervised consultants developing economic and demographic models for utility service territories.
- Represented the Commission on the Executive Committee on Intrastate Access Charges.

Principal Utility Analyst, Indiana Utility Regulatory Commission, January 1986 to March 1988

Responsibilities include:

- Prepared and presented testimony regarding demand forecasting for telephone and electric services, cost of equity and long run marginal cost.
- Contributed to staff reports on energy and demand forecasts.
- Developed financial forecasts for electric utilities.

International Consulting

Telephone Organization of Thailand, conducted a Tariff and Cost Workshop for Senior Management and Staff, Bangkok, February 5-7, 2001. Contractor: Booz, Allen & Hamilton, Inc.

Ministry of Communications, Indonesia, drafted a report on best practices guidelines for Universal Service Obligations, and conducted round-table with the Ministry of Communications staff and with the U. S. telecommunications community, Jakarta, August 20-September 9, 2000. Contractor: Nathan Associates, Inc.

Teaching

Assistant Professor,

James Madison University,

September 1983 to December 1985

Instructor,
James Madison University,
September 1979 to June 1983

Courses Taught: Industrial Regulation, Industrial

Organization (undergraduate and MBA),

Intermediate Macroeconomic Theory, Economic Analysis (MBA), Principles (Macro and Micro)

Other

Economist in the Office of Director, Bureau of Economic Analysis, Department of Commerce, Washington D.C., November 1972 to September 1975

Publications

"The Telecommunications Act of 1996: Residential Rates and Competition," *Utilities Policy*, September 2004.

"Universal Service: How much is enough?" Journal of Economic Issues, June 2003.

"Public Interest Regulation, Common Costs and Universal Service," eds. Edythe S. Miller and Warren J. Samuels, An Institutionalist Approach to Public Utilities Regulation, Michigan State University Press, 2002.

"Price Cap Regulation: Problems and Solutions," Land Economics, Vol. 71, Number 3, August 1995.

"Measuring the Total Service Long-Run Incremental Cost," Ninth NARUC Biennial Regulatory Information Conference, September 1994 (with David Gabel and Mark Kennet).

"The Proper Use of Stand Alone Cost Studies," Ninth NARUC Biennial Regulatory Information Conference, September 1994.

"State Experience in InterLATA Toll Deregulation," *Journal of Economic Issues*, Vol. XXVIII, No. 2, June 1994 (with Labros Pilalis).

"Price Caps and Cross-subsidization," Eighth NARUC Biennial Regulatory Information Conference, Ohio State University, 1992.

"The Institutional Conditions for Technological Change: Fiber to the Home," *Journal of Economic Issues*, Vol. XXV, No. 4, December 1991.

"Fiber to the Home: A Competitive Analysis," Seventh NARUC Biennial Regulatory Information Conference, Ohio State University, 1990.

"The Return of the Electric Utility Holding Company and the Future of the Electric Supply Industry," Journal of Economic Issues, Vol.XXIII, No. 2, June 1989.

"Impact of the National Appliance Energy Conservation Act on Residential Energy Consumption within a Service Territory," Sixth NARUC Biennial Regulatory Information Conference, Ohio State University, 1988 (with Katri Clodfelder).

A Summary of Future Demand Trends and Capacity Plans for Major Electric Utilities in Indiana, Public Service Commission of Indiana, Indianapolis, Indiana, 1987 (with Wayne Lash, et al).

Electric Demand and Supply Planning for the State of Indiana, Public Service Commission of Indiana, Indianapolis, Indiana, 1985 (with Wayne Lash, et al).

"District Heating and Regulatory Reform," Proceedings of the Seventy-Fifth Annual Conference of the International District Heating Association, Washington D.C.:IDHA 1984.

State and Local Regulation of District Heating and Cooling Systems: Issues and Options, Argonne, Illinois: Argonne National Laboratory, 1981 (with Philip Kier, et al).

"Michigan's Hydroelectric Potential," The Michigan State Economic Record, Volume 20, Number 7 (July-August 1978), Division of Research, Graduate School of Business, Michigan State University.

Staff Testimony

Before the Public Service Commission of the District of Columbia:

Formal Case No. 929 The Application of Potomac Electric Power
Company for an Increase in its Retail Rates
for the Sale of Electric Energy.
Principal Issues: Class Revenue Responsibility, Rate
Structure and Low Income Rates.

Formal Case No. 926 The Application of The Chesapeake and Potomac Telephone Company for Authority to Establish a Revenue Requirement and to Increase and Restructure its Schedule of Rates and Charges Principal Issues: Centrex burden and the Centrex embedded cost study.

Formal Case No. 917

Phase II

The Application of Potomac Electric Power Company For Approval of its Third Least Cost Plan

Principal Issues: The Strategic Approach to DSM Develop and Implementation, Level of DSM Spending, Appropriate Standards by Which DSM Expenses Should Be Judged Prudent, and Rate Design and Least-Cost Planning Principles.

Formal Case No. 891 The Application of Chesapeake and Potomac
Telephone Company to Offer Return Call and
Caller ID Within the District of Columbia
Principal Issues: Tying Arrangements Between Sales of
Equipment and Services, and Public Policy Issues Associated
With the Offering of Caller ID

Formal Case No. 850 Investigation into the Reasonableness of the
Authorized Return on Equity, Rate of Return,
and Current Charges and Rates for
Telecommunications Services Offered by the
Chesapeake and Potomac Telephone Company
Principal Issues: Rate Design, Incremental Cost and Embedded
Cost Studies

Formal Case No. 814

Phase III

Investigation into the Impact of AT&T Divestiture and Decisions of the Federal Communications Commission on the Chesapeake and Potomac Telephone Company's Jurisdictional Rates

Principal Issues: Flexible pricing, incremental cost studies, tests for the existence of competition, criteria for measuring alternative regulatory plans.

Formal Case No. 814 Investigation into the Impact of AT&T
Divestiture and Decisions of the Federal
Communications Commission on the Chesapeake
and Potomac Telephone Company's
Jurisdictional Rates

Principal Issues: The Use of Cross Elasticity Studies and Market Surveys to Define Markets for Telecommunications Services

Telephone Tariff

91-3 Investigation of the Chesapeake and Potomac Telephone Company's General Regulations Tariff No. 201, Section 1 Principal Issues: Regulatory safeguards and costs of preapproval of special assemblies

Before the Indiana Utility Regulatory Commission:

- Cause No. 38665 Joint Petition of Century Telephone
 Enterprises, Inc., Odon Telephone Co., Inc.
 and Colonial Telephone Company, Inc.
 Principal Issue: Approval of the Purchase of Odon by Century
- Cause No. 38560 Petition of Northern Indiana Public Service
 Company
 Principal Issues: Economic Development Rates and Long Run
 Marginal Cost
- Cause No. 38426 Petition of GTE-Indiana
 Principal Issues: Revenue Adjustment, CrossSubsidization, Cost Methodology and Demand Repression
- Cause No. 38415 Petition of Public Service Company of Indiana Principal Issue: Financing Authority
- Cause No. 38302 Joint Petition of Indiana Gas Company, Inc. and Westport Natural Gas Company, Inc. Principal Issue: Acquisition Adjustment
- Cause No. 38158-S1 Investigation to Determine the Extent of Regulation of Pay Telephone Equipment Principal Issue: Regulation of IXC-Owned Pay Phones
- Cause No. 38158 Investigation to Determine the Extent of Regulation of Pay Telephone Equipment Principal Issues: Deregulation and Rate Structure
- Cause No. 38061 Petition of Midwest Natural Gas Corporation Principal Issue: Cost of Equity
- Cause No. 38059 Petition of Indiana Bell Telephone Company, Inc. Principal Issues: Local Measured Service and Long Run Marginal Cost
- Cause No. 38045 Petition of Northern Indiana Public Service Company

- Principal Issues: Demand Forecasting, Financial Viability and Regulatory Policy with Regard to Excess Capacity
- Cause No. 38034 Petition of Odon Telephone Company, Inc.
 Principal Issues: Acquisition Adjustment, Cost of Equity,
 Financing Authority, and Service Improvement Program
- Cause No. 37938 Petition of Northern Indiana Public Service Company Principal Issues: Economic Development Rates
- Cause No. 37927 Petition of United Telephone of Indiana Principal Issues: Cost of Equity
- Cause No. 37866 Petition of Hoosier Energy Rural Electric Cooperative, Inc., et al.
 Principal Issues: Economic Development Rates and Long Run Marginal Cost
- Cause No. 37814 Petition of United Telespectrum of Indiana, Inc. Principal Issue: Certificate of Territorial Authority
- Cause No. 37735 Petition of Westport Natural Gas Company, Inc. Principal Issue: Cost of Equity
- Cause No. 37706 Petition of Midwest Natural Gas Corporation Principal Issue: Cost of Equity
- Cause No. 37686 Petition of Indiana Bell Telephone Company, Inc. Principal Issue: Demand Repression
- Cause No. 37414 Petition of Public Service Company of Indiana Principal Issues: Forecasting Methodology and Capacity Planning

Lectures

"Network Neutrality and Service Quality," and "Telecommunications Pricing," NARUC Advanced Regulatory Studies Program, June 2006.

"Public Utility Pricing," "Retail Pricing in Telecommunications," and "Cost Models in Telecommunications," NARUC Annual Regulatory Studies Program, August 2004.

- "Retail Pricing in Telecommunications," NARUC Annual Regulatory Studies Program, August 2003.
- "The Evolution of Telecommunications Pricing," NARUC Annual Regulatory Studies Program, August 2002.
- "Federal Restructuring of the Telecommunications Industry," "Federal Universal Service Programs," and "State Universal Service Programs," NARUC Annual Regulatory Studies Program, August 2001.
- "Cost Modeling in Telecommunications," NARUC Annual Regulatory Studies Program, August 2000.
- "Cost Modeling in Telecommunications," NARUC Annual Regulatory Studies Program, August 1999.
- "Cost Modeling and Universal Service," NARUC Annual Regulatory Studies Program, August 1998.
- "Cost Modeling in Telecommunications," NARUC Annual Regulatory Studies Program, August 1997.
- "Policy Issues Raised by Performance-Based Incentive Systems," Public Policies Toward Competition in the Electric Power Industry, Wisconsin Public Utility Institute, October 1994.
- "Cost Allocations in Broadband Networks," NARUC Annual Regulatory Studies Program, August 1994.
- "Pricing Concepts and the Control of Price Discrimination in Advanced Telecommunications Networks: Issues and Methods," NARUC Advanced Regulatory Studies Program, January 1994.
- "Cost Allocation in Advanced Telecommunications Networks: Issues and Methods," NARUC Annual Regulatory Studies Program, August 1993.
- "A Review of Incentive Regulation," CAMPUT 7th Annual Regulatory Conference, Banff Canada, May 1993.
- "New Social Contracts: Telecommunications Policy for the 21st Century," Annual Meeting of the Association of Evolutionary Economics, January 1993.

"Modernization: Who Pays? Who Benefits?," NARUC Annual Regulatory Studies Program, August 1992.

"Who Determines the Costs and Prices for Access to the Infrastructure," Telecommunications Policy: Agenda for the 21st Century Conference, The Michigan Divestiture Research Fund, March 1992.

"The New Social Contract," State Policies for Developing the Telecommunications Infrastructure Forum, Wisconsin Public Utility Institute, December 1991.

"RBOC Strategic Reactions to Entry," Atlantic Economic Society Annual Conference, Washington, D.C., October 1991.

Industry Committees

Federal Staff of the Federal-State Joint Board of CC Docket No. 80-286 (June 1999 to April 2001).

Federal Staff of the Federal-State Joint Board of CC Docket No.96-45 (May 1996 to April 2001).

National Association of Regulatory Utility Commissioners (NARUC) Staff Subcommittee on Communications (1994-1996).

State Staff of the Federal-State Joint Board of CC Docket No.80-286 (1991-1996).

Professional Associations

Member:

American Economic Association Association for Evolutionary Economics

Exhibit RL-2 TDS Line Counts by Zip Code and Cable << BEGIN CONFIDENTIAL								
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Exhibit RL-2	TDS Line	Counts by Zip	Code and	Cable
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	Exhibit RL-3 TDS DSL Line Counts							

END CONFIDENTIAL

Exhibit RL-4	TDS Acces	s Line Cou	nts		
total access lines	MCT	Kearsarge	Wilton	Hollis	Total
Dec-04	17792	10429	3690	3552	35463
Dec-05	17458	10223	3582	3431	34694
Dec-06	16891	9966	3484	3318	33659
Aug-07	16314	9387	3246	3206	32153
Percent Change					-9.3%
Residential	MCT	Kearsarge	Wilton	Hollis	Total
Dec-04	13348	7413	2701	2869	26331
Dec-05	13032	7239	2589	2756	25616
Dec-06	12585	6995	2489	2645	24714
Aug-07	12238	6818	2420	2599	24075
Percent Change					-8.6%
Business	MCT	Kearsarge	Wilton	Hollis	Total
Dec-04	4444	3016	989	683	9132
Dec-05	4426	2984	993	675	9078
Dec-06	4306	2971	995	673	8945
Aug-07	4076	2569	826	607	8078
Percent Change					-11.5%

Exhibit RL-5		FCC Additional I	Line Counts			
	primary		total			
	residential	non-primary	residential	percent non-		
Year	lines	residential lines	lines	primary		
2001	101	26.3	127.3	21%		
2002	102.2	18.4	120.6	15%		
2003	102.1	16	118.1	14%		
2004	100.1	13.8	113.9	12%		
2005	95.6	12.1	107.7	11%		
change from	5.4	14.2	19.6			
Source: FCC Telephone Trends, Table 7.4 Additional Residential						
Lines for Hou	seholds with 1	Telephone Servic	e			

Exhibit RL-6	TDS Rates	and Maxim	ium Rate Increas	es
				percentage change
	residential	busines	max proposed	in residential rate-
exchange	rate	rate	residential rate	max to current
Andover	10.17	22.04	14.39	41.5%
Boscawen	14.39	30.27	15.67	8.9%
Chichester	10.07	18.45	15.67	55.6%
Meriden	12.07	26.12	15.67	29.8%
New London	11.02	23.91	14.39	30.6%
Salisbury	9.37	20.28	14.39	53.6%
Hollis	14.59	22.87	15.67	7.4%
Wilton	6.72	15.32	14.39	114.1%
Contoocook	\$11.20	19.38	15.67	39.9%
Hillsborough	\$11.20	19.38	14.39	28.5%
Warner	\$11.20	19.38	14.39	28.5%
Sutton	\$11.20	19.38	14.39	28.5%
Bradford	\$11.20	19.38	14.39	28.5%
Henniker	\$11.20	19.38	14.39	28.5%
Antrim	\$11.20	19.38	14.39	28.5%
Melvin Village	\$11.20	19.38	14.39	28.5%

OCA 1-2: Is "naked DSL" offered by TDS and available to a majority of your retail customers in any of your NH exchanges? If so, please identify in which exchanges and at what price the service is available?

Response:

No.

)

OCA 1-20: How many wireline CLECs are serving customers in each TDS exchange? How many lines are served by each of those CLECs in each exchange: by residential and non-residential?

Response:

There are no CLECs serving customers in Petitioners' territories.

CONFIDENTIAL

OCA 1-46: Please provide a list of communities where each cable provider provides telephone service in a TDS study area in New Hampshire by study area.

Response:

Petitioner is not aware of any communities within the TDS study area where a cable provider is offering telephone service at this time, although the website of Comcast indicates digital phone is available in some exchanges. [BEGIN CONFIDENTIAL END CONFIDENTIAL] VoIP service would be available wherever the cable broadband service is available.

OCA 1-48: Please provide a list of zip codes where each cable provider provides video service in a TDS study area in New Hampshire by study area.

Response:

The Petitioners object to OCA Data Request 1-48 on the grounds that the data request is overbroad and unduly burdensome. Subject to and without waiving these objections, the Petitioners will provide information responsive to this data request.

KTC

Comcast:

03216

03257

03258

03268

03303

03770

WTC

Comcast: 03086

HTC

Charter Communications: 03049

MCT

Comcast:

03229

03242

03244

03440

03850

MCT Cable:

03221

03260

03273

03278

CONFIDENTIAL

OCA 1-53: Please provide the number of former TDS residential customers that have ported their telephone number to a cable provider and no longer purchase TDS service by study area. Also provide the number of numbers ported to the cable provider.

Response:

Petitioners have no numbers that have been ported to a cable provider or a CLEC acting on behalf of the cable provider. [BEGIN CONFIDENTIAL

END CONFIDENTIAL] We fully expect number portability as defined in 251(b) of the Telecommunications Act of 1996 will be requested and we are capable of porting numbers in all exchanges in New Hampshire.

OCA 1-56: Please provide the number of white pages residential numbers that accessociated with cable providers by cable provider in each TDS study area.

Response:

Once a residential customer becomes the customer of a competitor, they are not included in the TDS system unless it is specified by the interconnection agreement and is requested by the carrier, cable company acting as a carrier or the carrier used the cable company. In New Hampshire, this arrangement is not complete and, therefore, there are no cable customer white pages listings.

OCA 2-1: Please provide a copy of Form 477 filings with the Federal Communications Commission for each TDS New Hampshire Incumbent Local Telephone Carrier for the years 2004 through 2007 year-to-date. Please provide updated information as it becomes available.

Response:

Please see Confidential Attachments TDS-CONF 0096-0148.

OCA 2-11: If TDS' proposal for an AFOR is approved by the Commission, please provide a chart showing today's basic residential rates for each exchange and the maximum rate they could increase to in each of the next 5 years by year (excluding exogenous changes).

Response:

The chart below assumes that the comparable rates charged by Verizon do not change over the next 5 years. These maximum potential rates are computed per RSA 374:3-b and are illustrative only.

			Year 1	Year 2	Year 3	Year 4	Year 5
			Max	Max	Max	Max	Max
	R1	Rate	R1	R1	R1	R1	R1
Exchange	Rate	Cap	Rate	Rate	Rate	Rate	Rate
Hollis	\$14.59	\$15.67	\$15.67	\$15.67	\$15.67	\$15.67	\$15.67
Wilton	\$6.72	\$14.39	\$7.39	\$8.13	\$8.94	\$9.84	\$14.39
Meriden	\$12.07	\$15.67	\$13.28	\$14.60	\$15.67	\$15.67	\$15.67
New London	\$11.02	\$14.39	\$12.12	\$13.33	\$14.39	\$14.39	\$14.39
Andover	\$10.17	\$14.39	\$11.19	\$12.31	\$13.54	\$14.39	\$14.39
Boscawen	\$14.39	\$15.67	\$15.67	\$15.67	\$15.67	\$15.67	\$15.67
Salisbury	\$9.37	\$14.39	\$10.31	\$11.34	\$12.47	\$13.72	\$14.39
Chichester	\$10.07	\$15.67	\$11.08	\$12.18	\$13.40	\$14.74	\$15.67
Contoocook	\$11.20	\$15.67	\$12.32	\$13.55	\$14.91	\$15.67	\$15.67
Hillsborough	\$11.20	\$14.39	\$12.32	\$13.55	\$14.39	\$14.39	\$14.39
Warner	\$11.20	\$14.39	\$12.32	\$13.55	\$14.39	\$14.39	\$14.39
Sutton	\$11.20	\$14.39	\$12.32	\$13.55	\$14.39	\$14.39	\$14.39
Bradford	\$11.20	\$14.39	\$12.32	\$13.55	\$14.39	\$14.39	\$14.39
Henniker	\$11.20	\$14.39	\$12.32	\$13.55	\$14.39	\$14.39	\$14.39
Antrim	\$11.20	\$14.39	\$12.32	\$13.55	\$14.39	\$14.39	\$14.39
Melvin Village	\$11.20	\$14.39	\$12.32	\$13.55	\$14.39	\$14.39	\$14.39

Timothy W. Ulrich is responsible for this response.

STAFF 1-10: Reed Testimony, Page 3, line 30. Has TDS estimated what fraction of wireless customers in New Hampshire's TDS territory do not have wireline telephony at all?

- a. If so, please report the estimate.
- b. If not, please estimate the aforementioned fraction.

Response:

No. Petitioners do not have data regarding the total number of wireless customers to make this calculation.

STAFF 1-11: Reed Testimony, Page 3, line 30. Has TDS estimated what fraction of broadband customers in New Hampshire's TDS territory do not have wireline telephony at all?

a. If so, please report the estimate.

b. If not, please estimate the aforementioned fraction.

Response:

No. Petitioners do not have the data on total broadband customers from which to calculate this fraction.

STAFF 1-15: Reed Testimony, Page 5, lines 5-7. "While the competition and competitors vary in each exchange, customers have alternatives and are using them." Are you suggesting that all customers in each exchange are using the alternatives to wireline telephony specifically for basic local service?

- a. If the answer is in the affirmative, please provide support on an exchange-by-exchange basis for your position.
- b. If the answer is in the negative, please demonstrate that majority of the customers in each exchange served by the companies are using alternatives to wireline telephony specifically for basic local service.

Response:

Petitioners are not suggesting that *all* customers in *each exchange* are using alternatives to wireline telephony specifically for basic local service. As required by the statute, competitive wireline, wireless, or broadband service is available to a majority of the retail customers in each of the exchanges served by the small incumbent local exchange carrier. In addition, the Petitioners have measured the effects of competition on the companies with three key indicators; loss of intrastate access minutes, loss of state switched access revenue, and loss of access lines.

Kearsarge Telephone Company
Wilton Telephone Company
Hollis Telephone Company
Merrimack County Telephone Company
Docket No. DT 07-027
Company Responses
To STAFF Set 2 Data Requests
September 26, 2007
Supplemental Response Dated October 5, 2007

STAFF 2-2: Reed Testimony: Please provide monthly data on the number of access lines with basic local service for the period Jan. 2004 to August 2007 for each TDS exchange (also provide an electronic copy of this data).

Response:

The Petitioners object to Staff Data Request 2-2 on the grounds that the data request is overbroad and unduly burdensome. The information requested is not maintained in the monthly format requested in the ordinary course of business and would need to be re-created manually at substantial time and expense. (Internal monthly access line information does not reconcile to annually reported information due to the inclusion of items such as official lines, test lines, ISDN circuits, etc. in the monthly figures.) Subject to and without waiving these objections, the Petitioners will provide information responsive to Staff Data Request 2-2.

Information has been compiled as of the end of each year and August 2007.

MCT Total Access Lines

	Total Access	Period	Cumulative	Period %	Cumulative
Period	Lines	Change	Change	Change	% Change
12/31/2004	17,792				
12/31/2005	17,458	(334)	(334)	-1.88%	-1.88%
12/31/2006	16,891	(567)	(901)	-3.25%	-5.06%
08/31/2007	16,314	(577)	(1478)	-3.42%	-8.31%

Kearsarge Total Access Lines

Period	Total Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	10,429				
12/31/2005	10,223	(206)	(206)	-1.98%	-1.98%
12/31/2006	9,966	(257)	(463)	-2.51%	-4.44%
08/31/2007	9,387	(579)	(1042)	-5.81%	-9.99%

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STAFF 2-2 Response Continued, Page 2:

Wilton Total Access Lines

Period	Total Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	3,690				
12/31/2005	3,582	(108)	(108)	-2.93%	-2.93%
12/31/2006	3,484	(98)	(206)	-2.74%	-5.58%
08/31/2007	3,246	(238)	(444)	-6.83%	-12.03%

Hollis Total Access Lines

Period	Total Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	3,552				
12/31/2005	3,431	(121)	(121)	-3.41%	-3.41%
12/31/2006	3,318	(113)	(234)	-3.29%	-6.59%
08/31/2007	3,206	(112)	(346)	-3.38%	-9.74%

Supplemental Response:

Staff has requested additional information for monthly data by exchange if possible agreeing to take data from different sources or systems that may not be consistent with other data provided in this case.

The monthly data by exchange taken from different reporting that provides total access line data which includes official lines and lines in service for only a portion of the monthly billing cycle. In addition, the lines are not factored for equivalency ratios. Therefore, an exact match to access line data provided in testimony and other responses to data requests cannot be made. The Petitioners are also providing the original response access line data by exchange for the four periods.

See Attachments TDS 0180-0184.

SUPPLEMENTAL RESPONSE STAFF 2-2 THROUGH STAFF 2-4

		RESIDE	ENTIAL	•		BUSII	NESS			TO	ΓAL	
EXCHANGE	Dec-04	Dec-05	Dec-06	Aug-07	Dec-04	Dec-05	Dec-06	Aug-07	Dec-04	Dec-05	Dec-06	Aug-07
Contoocook	2,805	2,750	2,630	2,576	877	873	829	884	3,682	3,623	3,459	3,460
Hillsborough	2,582	2,527	2,400	2,290	968	946	948	880	3,550	3,473	3,348	3,170
Wamer	1,273	1,246	1,214	1,184	564	582	571	377	1,837	1,828	1,785	1,561
Sutton	679	672	657	642	220	195	213	209	899	867	870	851
Bradford	1,575	1,544	1,528	1,518	379	341	302	302	1,954	1,885	1,830	1,820
Henniker	1,757	1,695	1,610	1,559	895	916	874	873	2,652	2,611	2,484	2,432
Antrim	1,929	1,868	1,831	1,766	410	429	427	416	2,339	2,297	2,258	2,182
Melvin Village	748	730	715	703	131	144	142	135	879	874	857	838
Total MCT	13,348	13,032	12,585	12,238	4,444	4,426	4,306	4,076	17,792	17,458	16,891	16,314
New London	2,808	2,721	2,626	2,572	1,730	1,708	1,680	1,337	4,538	4,429	4,306	3,909
Andover	1,055	1,050	993	972	275	282	282	294	1,330	1,332	1,275	1,266
Boscawen	788	7 61	731	713	277	250	283	281	1,065	1,011	1,014	994
Salisbury	913	907	893	866	132	133	130	128	1,045	1,040	1,023	994
Chichester	1,347	1,311	1,271	1,234	464	472	459	399	1,811	1,783	1,730	1,633
Meriden	502	489	481	461	138	139	137	130	640	628	618	591
Total Kearsarge	7,413	7,239	6,995	6,818	3,016	2,984	2,971	2,569	10,429	10,223	9,966	9,387
Wilton	2,701	2,589	2,489	2,420	989	993	995	826	3,690	3,582	3,484	3,246
Hollis	2,869	2,756	2,645	2,599	683	675	673	607	3,552	3,431	3,318	3,206

2004

EXCHANGE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
Antrim	2,372	2,374	2,375	2,369	2,370	2,401	2,408	2,417	2,397	2,391	2,387	2,377
Bradford	1,928	1,930	1,933	1,925	1,926	1,944	1,942	1,943	1,939	1,929	1,928	1,922
Contoocook	3,720	3,710	3,680	3,664	3,672	3,701	3,723	3,719	3,704	3,678	3,694	3,649
Henniker	2,685	2,683	2,682	2,687	2,678	2,672	2,645	2,635	2,628	2,617	2,596	2,577
Hillsborough	3,584	3,601	3,610	3,622	3,621	3,627	3,633	3,630	3,622	3,625	3,610	3,609
Melvin Village	932	929	922	924	925	942	942	940	943	927	924	915
Sutton	873	867	866	869	903	908	915	918	917	916	915	909
Wamer	1,691	1,676	1,673	1,682	1,685	1,692	1,687	1,681	1,689	1,691	1,690	1,689
Andover	1,364	1,352	1,358	1,358	1,351	1,375	1,380	1,383	1,359	1,352	1,347	1,339
Boscawen	1,106	1,104	1,099	1,091	1,088	1,091	1,102	1,100	1,099	1,099	1,092	1,093
New London	4,199	4,197	4,193	4,192	4,216	4,200	4,213	4,228	4,208	4,363	4,211	4,202
Salisbury	1,091	1,090	1,091	1,087	1,086	1,081	1,082	1,077	1,074	1,073	1,074	1,072
Chichester	1,853	1,851	1,843	1,834	1,832	1,830	1,834	1,834	1,827	1,819	1,814	1,809
Meriden	642	644	644	641	639	635	632	629	628	626	620	619
Hollis	3,636	3,626	3,626	3,625	3,613	3,606	3,613	3,606	3,577	3,561	3,559	3,551
Wilton	3,638	3,626	3,618	3,609	3,591	3,618	3,607	3,604	3,611	3,590	3,590	3,584

EXCHANGE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
Antrim	2,370	2,373	2,371	2,380	2,361	2,351	2,351	2,338	2,349	2,339	2,341	2,342
Bradford	1,928	1,926	1,923	1,923	1,920	1,928	1,920	1,914	1,904	1,892	1,882	1,872
Contoocook	3,627	3,623	3,656	3,651	3,661	3,653	3,644	3,669	3,660	3,609	3,614	3,595
Henniker	2,570	2,569	2,571	2,571	2,567	2,563	2,572	2,573	2,573	2,569	2,586	2,558
Hillsborough	3,582	3,584	3,586	3,587	3,587	3,597	3,588	3,578	3,569	3,547	3,542	3,529
Melvin Village	910	912	907	909	912	919	920	921	917	908	906	906
Sutton	902	904	903	902	908	921	913	912	906	899	872	876
Warner	1,687	1,669	1,669	1,670	1,671	1,669	1,661	1,665	1,668	1,666	1,680	1,677
Andover	1,335	1,334	1,330	1,326	1,334	1,368	1,362	1,366	1,373	1.351	1,351	1,345
Boscawen	1,095	1,091	1,092	1,093	1,086	1,101	1,096	1,099	1,075	1,080	1,049	1,038
New London	4,197	4,185	4,184	4,162	4,139	4,125	4,074	4,068	4,063	4,070	4,060	4,051
Salisbury	1,077	1,068	1,068	1,070	1,066	1,060	1,052	1,053	1,057	1,068	1,064	1,067
Chichester	1,805	1,798	1,800	1,794	1,776	1,771	1,775	1,774	1,762	1,776	1,764	1,770
Meriden	616	613	611	607	614	612	609	610	608	614	611	609
Hollis	3,535	3,523	3,524	3,527	3,506	3,489	3,463	3,459	3,453	3,434	3,429	3,429
Wilton	3,578	3,566	3,565	3,550	3,544	3,516	3,474	3,457	3,444	3,449	3,439	3,437

2006

EXCHANGE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
Antrim	2,334	2,328	2,325	2,323	2,336	2,333	2,333	2,313	2,317	2,303	2,292	2,282
Bradford	1,867	1,872	1,866	1,856	1,855	1,862	1,853	1,852	1,846	1,829	1,835	1,833
Contoocook	3,586	3,578	3,562	3,571	3,565	3,555	3,548	3,521	3,528	3,498	3,474	3,473
Henniker	2,553	2,550	2,544	2,536	2,532	2,520	2,510	2,501	2,494	2,487	2,482	2,436
Hillsborough	3,507	3,489	3,470	3,465	3,449	3,462	3,427	3,434	3,423	3,415	3,408	3,398
Melvin Village	905	898	895	892	892	894	895	901	895	890	881	881
Sutton	880	873	873	872	873	869	866	864	853	853	860	854
Warner	1,678	1,672	1,661	1,654	1,660	1,656	1,652	1,642	1,640	1,625	1,636	1,632
Andover	1,339	1,340	1,327	1,318	1,315	1,327	1,325	1,319	1,294	1,296	1,291	1,284
Boscawen	1,035	1,042	1,041	1,039	1,041	1,043	1,036	1,035	1,026	1,025	1,034	1,016
New London	4,033	4,024	4,007	4,012	3,995	3,995	4,007	3,995	3,972	3,952	3,932	3,925
Salisbury	1,065	1,066	1,060	1,055	1,060	1,058	1,052	1,051	1,047	1,048	1,047	1,046
Chichester	1,773	1,764	1,751	1,745	1,745	1,749	1,755	1,734	1,724	1,722	1,710	1,709
Meriden	611	608	608	603	601	598	595	597	604	603	602	599
Hollis	3,415	3,399	3,400	3,397	3,396	3,392	3,373	3,367	3,350	3,333	3,312	3,308
Wilton	3,424	3,413	3,402	3,402	3,390	3,372	3,367	3,356	3,341	3,337	3,341	3,334

EXCHANGE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
Antrim	2,277	2,276	2,274	2,270	2,252	2,250	2,238	2,214
Bradford	1,832	1,826	1,824	1,818	1,825	1,832	1,828	1,827
Contoocook	3,457	3,458	3,451	3,433	3,428	3,420	3,417	3,412
Henniker	2,422	2,414	2,412	2,409	2,397	2,360	2,349	2,346
Hillsborough	3,372	3,366	3,355	3,345	3,151	3,117	3,094	3,078
Melvin Village	878	874	869	865	873	847	839	836
Sutton	854	848	847	844	844	847	844	838
Warner	1,625	1,623	1,620	1,623	1,619	1,600	1,591	1,580
Andover	1,281	1,275	1,274	1,272	1,270	1,274	1,285	1,276
Boscawen	1,025	1,023	1,022	1,015	1,008	995	998	993
New London	3,895	3,882	. 3,851	3,832	3,834	3,832	3,832	3,812
Salisbury	1,045	1,039	1,041	1,036	1,027	1,021	1,021	1,022
Chichester	1,694	1,689	1,689	1,684	1,677	1,667	1,670	1,653
Meriden	598	598	596	593	595	590	580	573
Hollis	3,295	3,286	3,274	3,260	3,254	3,251	3,238	3,233
Wilton	3,312	3,304	3,288	3,292	3,291	3,263	3,243	3,235

STAFF 2-2: Reed Testimony: Please provide monthly data on the number of access lines with basic local service for the period Jan. 2004 to August 2007 for each TDS exchange (also provide an electronic copy of this data).

Response:

The Petitioners object to Staff Data Request 2-2 on the grounds that the data request is overbroad and unduly burdensome. The information requested is not maintained in the monthly format requested in the ordinary course of business and would need to be re-created manually at substantial time and expense. (Internal monthly access line information does not reconcile to annually reported information due to the inclusion of items such as official lines, test lines, ISDN circuits, etc. in the monthly figures.) Subject to and without waiving these objections, the Petitioners will provide information responsive to Staff Data Request 2-2.

Information has been compiled as of the end of each year and August 2007.

MCT Total Access Lines

Period	Total Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	17,792		_		
12/31/2005	17,458	(334)	(334)	-1.88%	-1.88%
12/31/2006	16,891	(567)	(901)	-3.25%	-5.06%
08/31/2007	16,314	(577)	(1478)	-3.42%	-8.31%

Kearsarge Total Access Lines

Period	Total Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	10,429				
12/31/2005	10,223	(206)	(206)	-1.98%	-1.98%
12/31/2006	9,966	(257)	(463)	-2.51%	-4.44%
08/31/2007	9,387	(579)	(1042)	-5.81%	-9.99%

STAFF 2-2 Response Continued, Page 2:

Wilton Total Access Lines

Period	Total Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	3,690				
12/31/2005	3,582	(108)	(108)	-2.93%	-2.93%
12/31/2006	3,484	(98)	(206)	-2.74%	-5.58%
08/31/2007	3,246	(238)	(444)	-6.83%	-12.03%

Hollis Total Access Lines

Period	Total Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	3,552				
12/31/2005	3,431	(121)	(121)	-3.41%	-3.41%
12/31/2006	3,318	(113)	(234)	-3.29%	-6.59%
08/31/2007	3,206	(112)	(346)	-3.38%	-9.74%

Kearsarge Telephone Company
Wilton Telephone Company
Hollis Telephone Company
Merrimack County Telephone Company
Docket No. DT 07-027
Company Responses
To STAFF Set 2 Data Requests
September 26, 2007
Supplemental Response Dated October 5, 2007

STAFF 2-3: Reed Testimony: Please provide monthly data on the number of residential access lines with basic local service for the period Jan. 2004 to August 2007 for each TDS exchange (also provide an electronic copy of this data).

Response:

The Petitioners object to Staff Data Request 2-3 on the grounds that the data request is overbroad and unduly burdensome. The information requested is not maintained in the monthly format requested in the ordinary course of business and would need to be re-created manually at substantial time and expense. (Internal monthly access line information does not reconcile to annually reported information due to the inclusion of items such as official lines, test lines, ISDN circuits, etc. in the monthly figures.) Subject to and without waiving these objections, the Petitioners will provide information responsive to Staff Data Request 2-3.

Information has been compiled as of the end of each year and August 2007.

MCT Residential Access Lines

Period	Residential Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	13,348				
12/31/2005	13,032	(316)	(316)	-2.37%	-2.37%
12/31/2006	12,585	(447)	(763)	-3.43%	-5.72%
08/31/2007	12,238	(347)	(1110)	-2.76%	-8.32%

Kearsarge Residential Access Lines

Period	Residential Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	7,413		7		
12/31/2005	7,239	(174)	(174)	-2.35%	-2.35%
12/31/2006	6,995	(244)	(418)	-3.37%	-5.64%
08/31/2007	6,818	(177)	(595)	-2.53%	-8.03%

STAFF 2-3 Response Continued, Page 2:

Wilton Residential Access Lines

Period	Residential Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	2,701				
12/31/2005	2,589	(112)	(112)	-4.15%	-4.15%
12/31/2006	2,489	(100)	(212)	-3.86%	-7.85%
08/31/2007	2,420	(69)	(281)	-2.77%	-10.40%

Hollis Residential Access Lines

Period	Residential Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	2,869				
12/31/2005	2,756	(113)	(113)	-3.94%	-3.94%
12/31/2006	2,645	(111)	(224)	-4.03%	-7.81%
08/31/2007	2,599	(46)	(270)	-1.74%	-9.41%

Supplemental Response:

Please see supplemental response to Staff 2-2.

STAFF 2-3: Reed Testimony: Please provide monthly data on the number of residential access lines with basic local service for the period Jan. 2004 to August 2007 for each TDS exchange (also provide an electronic copy of this data).

Response:

The Petitioners object to Staff Data Request 2-3 on the grounds that the data request is overbroad and unduly burdensome. The information requested is not maintained in the monthly format requested in the ordinary course of business and would need to be re-created manually at substantial time and expense. (Internal monthly access line information does not reconcile to annually reported information due to the inclusion of items such as official lines, test lines, ISDN circuits, etc. in the monthly figures.) Subject to and without waiving these objections, the Petitioners will provide information responsive to Staff Data Request 2-3.

Information has been compiled as of the end of each year and August 2007.

MCT Residential Access Lines

Period	Residential Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	13,348	-			
12/31/2005	13,032	(316)	(316)	-2.37%	-2.37%
12/31/2006	12,585	(447)	(763)	-3.43%	-5.72%
08/31/2007	12,238	(347)	(1110)	-2.76%	-8.32%

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STAFF 2-3 Response Continued, Page 2:

Wilton Residential Access Lines

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Kearsarge Telephone Company
Wilton Telephone Company
Hollis Telephone Company
Merrimack County Telephone Company
Docket No. DT 07-027
Company Responses
To STAFF Set 2 Data Requests
September 26, 2007
Supplemental Response Dated October 5, 2007

STAFF 2-4: Reed Testimony: Please provide monthly data on the number of business access lines with basic local service for the period Jan. 2004 to August 2007 for each TDS exchange (also provide an electronic copy of this data).

Response:

The Petitioners object to Staff Data Request 2-4 on the grounds that the data request is overbroad and unduly burdensome. The information requested is not maintained in the monthly format requested in the ordinary course of business and would need to be re-created manually at substantial time and expense. (Internal monthly access line information does not reconcile to annually reported information due to the inclusion of items such as official lines, test lines, ISDN circuits, etc. in the monthly figures.) Subject to and without waiving these objections, the Petitioners will provide information responsive to Staff Data Request 2-4.

Information has been compiled as of the end of each year and August 2007.

MCT Business Access Lines

	Business	Period	Cumulative	Period %	Cumulative
Period	Access Lines	Change	<u>Change</u>	Change	% Change
12/31/2004	4,444				
12/31/2005	4,426	(18)	(18)	-0.41%	-0.41%
12/31/2006	4,306	(120)	(138)	-2.71%	-3.11%
08/31/2007	4,076	(230)	(368)	-5.34%	-8.28%

Kearsarge Business Access Lines

Period	Business Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	3,016				
12/31/2005	2,984	(32)	(32)	-1.06%	-1.06%
12/31/2006	2,971	(13)	(45)	-0.44%	-1.49%
08/31/2007	2,569	(402)	(447)	-13.53%	-14.82%

STAFF 2-4 Response Continued, Page 2:

Wilton Business Access Lines

Period	Business Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	989				
12/31/2005	993	4	4	0.40%	0.40%
12/31/2006	995	2	6	0.20%	0.61%
08/31/2007	826	(169)	(163)	-16.98%	-16.48%

Hollis Business Access Lines

Period	Business Access Lines	Period Change	Cumulative Change	Period % Change	Cumulative % Change
12/31/2004	683				
12/31/2005	675	(8)	(8)	-1.17%	-1.17%
12/31/2006	673	(2)	(10)	-0.30%	-1.46%
08/31/2007	607	(66)	(76)	-9.81%	-11.13%

Supplemental Response:

Please see supplemental response to Staff 2-3.

STAFF 2-4: Reed Testimony: Please provide monthly data on the number of business access lines with basic local service for the period Jan. 2004 to August 2007 for each TDS exchange (also provide an electronic copy of this data).

Response:

The Petitioners object to Staff Data Request 2-4 on the grounds that the data request is overbroad and unduly burdensome. The information requested is not maintained in the monthly format requested in the ordinary course of business and would need to be re-created manually at substantial time and expense. (Internal monthly access line information does not reconcile to annually reported information due to the inclusion of items such as official lines, test lines, ISDN circuits, etc. in the monthly figures.) Subject to and without waiving these objections, the Petitioners will provide information responsive to Staff Data Request 2-4.

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STAFF 2-4 Response Continued, Page 2:

Wilton Business Access Lines

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12/31/2006	995	2	6	0.20%	0.61%
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Hollis Business Access Lines

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