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BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF SOUTH DAKOTA

IN THE MATTER OF THE PETITION Docket No. OF **KENNEBEC TELEPHONE** COMPANY, FOR ARBITRATION TC07-114 PURSUANT TO THE **TELECOMMUNICATIONS** ACT OF **1996 TO RESOLVE ISSUES RELATING** TO AN INTERCONNECTION AGREEMENT ALLTEL WITH COMMUNICATIONS, INC.

> DIRECT TESTIMONY OF TIM EKLUND ON BEHALF OF KENNEBEC TELEPHONE COMPANY

2 I. Introduction 3 4 Witness Background Α. 5 6 Q. Please state your name, employer, and business address. 7 8 I am employed with Consortia Consulting Α. My name is Tim Eklund. 9 ("Consortia"). My business address is 9300 Underwood Avenue, Suite 310, 10 Embassy Tower, Omaha, Nebraska, 68114. 11 Q. On whose behalf are you testifying? 12 I am testifying on behalf of Kennebec Telephone Company, ("Kennebec"). 13 Α. 14 Kennebec provides local telephone exchange service and exchange access 15 services predominantly in the more rural parts of South Dakota. 16 Q. What is your current position? 17 18 Α. I am the Director of Settlements and Financial Analysis at Consortia. 19 20 What are your duties and responsibilities at Consortia? Q. 21



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1	A.	I am responsible for consulting with clients regarding regulatory, financial and
2		interconnection issues. I am also responsible for the development of economic
3		models to facilitate competitive studies and exchange/business valuations. In
4		addition, I manage Consortia's cost separations team which prepares interstate
5		and state jurisdictional cost studies.
6	Q.	What was your professional experience prior to your current position?
7 8	A.	I have worked in the telecommunications industry for 25 years. Prior to my
9		position with Consortia, I worked for Alltel (formerly known as Aliant
10		Communications and Lincoln Telephone prior to merging with Alltel) in various
11		accounting and finance capacities for both wireline and wireless properties.
12	Q.	What is your educational background?
13 14	A.	I have a Bachelor's Degree with an emphasis in accounting from Nebraska
14	11.	i have a Dachelor's Degree with an emphasis in accounting from recordsha
15	71.	Wesleyan University.
	7 .	
15 16 17 18	Q.	Wesleyan University.
15 16 17		 Wesleyan University. B. Issues Addressed in Testimony Please describe the issues raised in this proceeding for which you will be
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 15 16 17 18 19 20 21 21 22 23 24 	Q.	 Wesleyan University. B. Issues Addressed in Testimony Please describe the issues raised in this proceeding for which you will be providing testimony. The areas for which I will be providing testimony fall under the first issue identified in the Petitions for Arbitration (the "Petition") identified as "Is the reciprocal compensation rate for IntraMTA Traffic proposed by each South Dakota Rural Telephone Company appropriate pursuant to the pricing standards of 47 U.S.C. §252(d)(2)?" I will also testify that in addition to complying with 47

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1		basis on which incumbent local exchange carriers ("ILECs"), such as Kennebec,
2		shall establish rates for transport and termination of telecommunications traffic.
3		In addition, I will provide testimony regarding Issue 1 in Alltel's Response to the
4		Petition for Arbitration.
5 6 7	II.	The Reciprocal Compensation Rate for IntraMTA Traffic Proposed by Kennebec is Appropriate Pursuant to the Pricing Standards of 47 U.S.C. §252(d)(2).
8 9 10 11 12	Q.	Are the proposed transport and termination rates for Kennebec that are described in your testimony compliant with the requirements of 47 U.S.C. § 252(d)(2)?
12	A.	Yes. The transport and termination rates established for Kennebec that I am
14		presenting are based on forward-looking economic costs and are consistent with
15		applicable federal laws and FCC regulations.
16 17 18	Q.	Kennebec is proposing a rate for transport and termination. What are the FCC's definitions of the terms "Transport", "Termination" and "Reciprocal Compensation"?
19 20	А.	The FCC's definition of the terms "Transport" and "Termination" are found in 47
21		C.F.R. § 51.701. Such terms are defined as follows:
22 23 24 25 26 27 28		Transport. For the purposes of this subpart, transport is the transmission and any necessary tandem switching of telecommunications traffic subject to section $251(b)(5)$ of the Act from the interconnection point between the two carriers to the terminating carrier's end office switch that directly serves the called party, or equivalent facility provided by a carrier other than an incumbent LEC.
29 30 31 32 33		Termination. For purposes of this subpart, termination is the switching of telecommunications traffic at the terminating carrier's end office switch, or equivalent facility, and delivery of such traffic to the called party's premises.
33 34 35 36 37		Reciprocal compensation. For purposes of this subpart, a reciprocal compensation arrangement between two carriers is one in which each of the two carriers receives compensation from the other for the transport and termination on each carrier's network.

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2 3	Q.	Please identify the section of the FCC's rules that establishes how an ILEC's rates for transport and termination are to be determined?
4 5	A.	47 C.F.R. § 51.705(a)(1) establishes that such rates are to be determined based on
6		the forward-looking economic costs of such offerings, using a cost study pursuant
7		to 47 C.F.R. §51.505 and §51.511.
8 9	Q	Has Kennebec established a rate for transport and termination consistent with 47 C.F.R. §51.705(a)(1)?
10 11	A.	Yes. Kennebec determined its rates for transport and termination on the basis of
12		47 C.F.R. §51.705(a)(1) in accordance with a forward-looking economic cost
13		study prepared pursuant to 47 C.F.R. §51.505 and §51.511. I will discuss in detail
14		later in my testimony the results of this cost study.
15 16 17	Q.	The pricing standards for transport and termination are set forth in Section 252(d)(2) of the Act. Please explain when Section 252(d)(2) is applied and what sections of the FCC's rules implemented Section 252(d)(2) of the Act?
18 19	A.	Section 252 of the Act is entitled "Procedures for Negotiations, Arbitration, and
20		Approval of Agreements." Section 252 of the Act established the procedure for
21		agreements arrived at through voluntary negotiations, as well as the procedures
22		for agreements arrived at through arbitration. Section 252(c) establishes the
23		standards for arbitration, and Section 252(d) includes the pricing standards that a
24		state commission must consider in determining whether the charges for transport
25		and termination are just and reasonable. 47 C.F.R. §§ 51.505 and 51.511 are the
26		FCC's rules that implement the pricing standards set forth in the Act for transport
27		and termination.
28 29 30	Q.	When an incumbent uses a forward-looking economic cost study to determine its rates for transport and termination, which FCC rules are required to be followed?

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1 2	A.	Rules	47 C.J	F.R. §§ 51.505 and 51.511 are referenced in 47 C.F.R. § 51.705,
3		entitled "Incumbent LECs' rates for transport and termination." According		
4		51.70	5(a)(1),	an ILEC's forward-looking economic cost for transport and
			,	
5		termir	nation s	shall be developed using a cost study pursuant to §§ 51.505 and
6		51.51	1.	
7		§ 51.5	505 des	cribes the standard to be used to develop forward-looking economic
8		cost.	The tex	at of § 51.505 is shown below.
9		§ 51.5	505	Forward-looking economic cost ("FLEC").
10		(-)	T	The formed leading according and a four element couple the
11		(a)		<u>meral</u> . The forward-looking economic cost of an element equals the
12 13			sum o	D1:
13			(1)	the total element long win incremental cost of an element as
14			(1)	the total element long-run incremental cost of an element, as
16			(2)	described in paragraph (b); and a reasonable allocation of forward-looking common costs, as
17			(2)	-
17				described in paragraph (c).
10		(b)	Total	element long-run incremental cost. The total element long-run
20		(0)		mental cost of an element is the forward-looking cost over the long
21				f the total quantity of the facilities and functions that are directly
22				utable to, or reasonably identifiable as incremental to, such element,
23				lated taking as a given the incumbent LEC's provision of other
24			eleme	
25			CICIII	
26			(1)	Efficient network configuration. The total element long-run
27			(1)	incremental cost of an element should be measured based on the
28				use of the most efficient telecommunications technology currently
29				available and the lowest cost network configuration, given the
30				existing location of the incumbent LEC's wire centers.
31			(2)	Forward-looking cost of capital. The forward-looking cost of
32				capital shall be used in calculating the total element long-run
33				incremental cost of an element.
34			(3)	Depreciation rates. The depreciation rates used in calculating
35			. ,	forward-looking economic costs of elements shall be economic
36				depreciation rates.
37				-
38		(c)	<u>Reas</u>	onable allocation of forward-looking common cost.
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1			(1)	Forward-looking common costs. Forward-looking common costs
2				are economic costs efficiently incurred in providing a group of
3				elements or services (which may include all elements or services
4				provided by the incumbent LEC) that cannot be attributed directly
5				to individual elements or services.
6			(2)	Reasonable allocation.
7			(2)	
8				(i) The sum of a reasonable allocation of forward-looking common costs and the total element long-run incremental
9				-
				cost of an element shall not exceed the stand-alone costs
10				associated with the element. In this context, stand-alone
11				costs are the total forward-looking costs, including
12				corporate costs that would be incurred to produce a given
13				element if that element were provided by an efficient firm
14				that produced nothing but the given element.
15				(ii) The sum of the allocation of forward-looking common
16				costs for all elements and services shall equal the total
17				forward-looking common costs, exclusive of retail costs,
18				attributable to operating the incumbent LEC's total
19				network, so as to provide all the elements and services
20				offered.
21				
22		(d)	Facto	rs that may not be considered. The following factors shall not be
23		(4)		dered in a calculation of the forward-looking economic cost of an
24			eleme	•
25			Cicilic	<i>////.</i>
26			(1)	Embedded costs. Embedded costs are the costs that the incumbent
20			(1)	
				LEC incurred in the past and that are recorded in the incumbent
28			$\langle \mathbf{a} \rangle$	LEC's books of accounts.
29			(2)	Retail costs. Retail costs include the costs of marketing, billing,
30				collection, and other costs associated with offering retail
31				telecommunications services to subscribers who are not
32				telecommunications carriers, described in § 51.609 of this part.
33			(3)	Opportunity costs. Opportunity costs include the revenues that the
34				incumbent LEC would have received for the sale of
35				telecommunications services, in the absence of competition from
36				telecommunications carriers that purchase elements.
37			(4)	Revenues to subsidize other services. Revenues to subsidize other
38				services include revenues associated with elements or
39				telecommunications service offerings other than the element for
40				which the rate is being established.
41				
42	Q.	Desc	ribe the	e FLEC standard set forth in § 51.505(a).
43	-	-		0 (/

- A. The forward-looking economic cost ("FLEC") is equal to the total element long run incremental cost plus a reasonable allocation of forward-looking common
 cost.
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Q. Describe the TELRIC standard in § 51.505(b).

- A. According to § 51.505(b), there are three properties of total element long-run
 incremental cost ("TELRIC"). These three properties are an efficient network
 configuration (given the existing location of the ILEC's wire centers), forwardlooking cost of capital, and economic depreciation rates.
- 10 Q. Describe the efficient network configuration standard in § 51.505(b)(1).
- A. The efficient network configuration standard has two components. First, it
 requires that the network configuration be based on the most efficient technology
 currently available. Second, it requires that the lowest cost network configuration
 be used given the existing location of the ILEC's wire centers.
- 16 The FLEC study filed on behalf of Kennebec is based on current switch 17 technology at its existing wire centers. In developing transport and termination 18 costs for reciprocal compensation purposes, existing wire centers reduce the 19 complexity of network design. The costs associated with interoffice transport 20 were based on current technology used by Kennebec.
- Q. Describe the forward-looking cost of capital standard in § 51.505(b)(2).
 22
- A. The FCC has defined the forward-looking cost of capital as the cost of obtaining
 debt and equity financing. The FCC determined to utilize the authorized federal
 11.25 percent rate of return to determine forward-looking costs. According to the

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1		FCC, states may adjust the cost of capital if a party demonstrates to a state
2		commission that either a higher or lower cost of capital is warranted. ¹
3	Q.	Describe the economic depreciation rates standard found in § 51.505(b)(3).
4 5	A.	This standard is the forward-looking economic life or the expected life of a new
6		investment placed today. The depreciation rates for Kennebec's asset classes
7		were adjusted as necessary to comply with this standard.
8 9 10 11	Q.	You have described the necessary standards employed in the development of TELRIC, one component of FLEC. Please describe the standards required when developing the second component of FLEC, which is the reasonable allocation of forward-looking common costs.
12 13	A.	The FCC rules outline the reasonable allocation of forward-looking common costs
14		in § 51.505(c). This allocation would include both shared and common costs
15		which the FCC combines together as common costs. Shared costs are those costs
16		that are shared by a subset of network elements or services. Common costs are
17		shared by all elements or services of the ILEC. Common costs cannot be
18		attributed directly to individual elements or services. Consistent with the FCC
19		rules, common costs such as corporate costs may be included, whereas retail costs
20		are excluded.
21		The FLEC study prepared for Kennebec developed common costs based on
22		relationships determined from the current account balances from the accounting
23		books of Kennebec. The ratios developed were then applied to the forward-
24		looking costs for transport and termination

24 looking costs for transport and termination.

¹ Implementation of the Local Competition Provisions in the Telecommunications Act of 1996, CC Docket No. 96-98 and Interconnection Between Local Exchange Carriers and Commercial Mobile Radio Service Providers, CC Docket No. 95-185, First Report and Order, FCC 96-325 (rel. Aug. 8, 1996) ("Local Competition Order") at para. 702.

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1 2 3	Q	What are the types of costs that are to be excluded in the development of FLEC?
3 4	А.	The FLEC standard excludes specific costs that are not to be considered as
5		outlined in § 51.505(d). Such costs include:
6		(1) Embedded or past costs incurred by the company;
7		(2) Retail costs including marketing and billing of retail services;
8		(3) Opportunity cost such as revenues that a company may have
9		received absent competition; and
10		(4) Revenues to subsidize other services.
11		The FLEC study submitted on behalf of Kennebec does not include any of these
12		items and the study fully complies with this standard.
13 14 15	Q.	Once the forward-looking economic cost has been developed, which FCC rule defines how forward-looking economic cost per unit is to be developed?
16	A.	Rules 47 C.F.R. §§ 51.505 and 51.511 are referenced in 47 C.F.R. § 51.705.
17		After the forward-looking economic cost has been developed in accordance with
18		§ 51.505, the per unit costs are to be developed in accordance with § 51.511. §
19		51.511 reads as follows:
20 21 22 23 24 25 26 27 28 29		 (a) The forward-looking economic cost per unit of an element equals the forward-looking economic cost of the element, as defined in § 51.505 of this part, divided by a reasonable projection of the sum of the total number of units of the element that the incumbent LEC is likely to provide to requesting telecommunications carriers and the total number of units of the element that the incumbent LEC is likely to use in offering its own services, during a reasonable measuring period. (b) (1) With respect to elements that an incumbent LEC offers on a
30 31 32 33		(b) (1) with respect to elements that all incumbent LEC offers on a flat-rate basis, the number of units is defined as the discrete number of elements (e.g., local loops or local switch ports) that the incumbent LEC uses or provides.

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1 2 3 4 5		(2) With respect to elements that an incumbent LEC offers on a usage-sensitive basis, the number of units is defined as the unit of measurement of the usage (e.g., minutes of use or call-related database queries) of the element.
6		The units used to develop transport and termination rates were a projection of the
7		total switch minutes for termination and the total transmission minutes for
8		transport.
9 10 11 12	Q.	On the basis of the definition of "transport" and "termination" in § 51.701, were other sections of the FCC rules referred to in determining the manner in which the per-unit cost should be calculated?
12	А.	Yes. § 51.509 identifies the rate standards for specific elements. Based on the
14		definitions of transport and termination in § 51.701, the per unit cost for local
15		switching can be developed as set forth in § 51.509(b), and the per unit cost of
16		shared transmission facilities can be developed as set forth in § 51.509(d). Such
17		sub-sections of § 51.509 read as follows:
18 19 20 21 22		(b) Local Switching. Local switching costs shall be recovered through a combination of a flat-rated charge for line ports and one or more flat rated or per-minute usage charges for the switching matrix and line ports.
23 24 25 26 27		(d) Shared transmission facilities between tandem switches and end offices. The cost of shared transmission facilities between tandem switches and end offices may be recovered through usage-sensitive charges, or in a another manner consistent with the manner that the incumbent LEC incurs those costs.
28 29		The transport and termination rates presented in the FLEC study performed for
30		Kennebec are usage sensitive charges consistent with § $51.509(b)$ and §
31		51.509(d).
32 33	Q.	Explain how the model you used is consistent with the FCC FLEC standards.

1 A. The model presented here on behalf of Kennebec meets the requirements outlined 2 in § 51.505 and § 51.511 of the FCC rules as follows: 3 1) Total element long run incremental costs. 4 Transport and termination costs include the costs of traffic sensitive 5 switching and interoffice transport facilities. The model uses estimates of 6 switching and transport facilities based on forward-looking network 7 design. These costs are forward-looking and meet the standard for long 8 run incremental costs. 9 2) **Efficient Network Configuration.** 10 Vantage Point Solutions ("Vantage Point"), a telecommunications 11 engineering and consulting company, provided switching estimates, based 12 on recent switch acquisitions. The switch estimates were derived using 13 the location of existing wire centers, current subscribers, and engineering 14 trunking guidelines. The switching cost estimate was designed to be the 15 most efficient configuration given existing wire centers. Those costs were 16 adjusted in the model to remove the non-traffic sensitive cost component. 17 Transport facility electronic costs included the use of OC192 equipment. 18 Prices were obtained from transport estimates based on recent equipment 19 acquisitions. The number of OC192 terminals required was based on the 20 forward-looking network design. 21 Fiber cable cost per mile associated with interoffice transport was 22 provided by Vantage Point. Total costs were developed using the forward-23 looking network design. This design includes miles of plant required for

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1		EAS, Toll, and CMRS traffic. The miles included for Toll and CMRS
2		traffic reflect the most efficient routing as determined by the forward-
3		looking network design.
4	3)	Forward looking capital costs.
5		The FLEC model uses the FCC's authorized rate-of-return of 11.25
6		percent as the forward looking capital cost.
7	4)	Depreciation Rates.
8		The FLEC studies used depreciation rates that were based upon the
9		economic life of each asset class.
10	5)	Reasonable allocation of forward-looking common costs.
11		As explained previously, the approach taken to include common costs
12		(both shared and common) is based on ratios determined from the current
13		account balances of Kennebec. Ratios of various shared and common
14		capital and expense amounts to total direct capital costs were calculated.
15		These ratios were then applied to the forward-looking direct capital costs
16		to derive a forward-looking common cost amount. This is the most widely
17		used methodology in the industry and I believe it provides a reasonable
18		allocation of forward-looking common costs as outlined in § 51.505(c) of
19		the FCC rules.
20	6)	Forward-looking economic cost per unit. (§ 51.511)
21		The forward-looking economic cost per unit of an element equals the total
22		cost of the element divided by a reasonable projection of the total demand
23		for that element. The FLEC model utilized the most currently available

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1		demand levels to produce transport and termination costs on a per unit
2		basis.
3 4 5	Q.	Based upon the study that was prepared, what are the rates that you propose for transport and termination for each of the South Dakota Rural Telephone Companies?
6 7	A.	The FLEC studies result in the following transport and termination rates per
8		minute of use for Kennebec:
9 10 11 12		Switching Termination\$0.0251Transport\$0.0266Total\$0.0517
13	Q.	Please explain how these rates were developed?
14 15	A.	Switching Termination
16		1. The total forward-looking switch investment was obtained from Vantage
17		Point. The switch investment for Kennebec was established by Vantage
18		Point and was compared to a recent switch invoices purchased by rural
19		LECs of various sizes to verify its reasonableness. The switch investment
20		amount for Kennebec was based on the location of existing wire centers,
21		current subscribers, and engineering trunking guidelines.
22		2. The total forward-looking switching costs also include:
23		• Power, land and building investment amounts which are based on
24		account relationships in Kennebec's current financial statements.
25		• Common investment amounts which include motor vehicles, work
26		equipment, furniture, office equipment and general purpose
27		computers. Using Kennebec's current financial statements, a ratio
28		of common investment to direct investment was calculated. This

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1		ratio was then applied to the projected direct investment amounts
2		to calculate the common investment amounts.
3		• Annual charges were calculated as an annuity based on the
4		prescribed life of each asset account, a rate of return of 11.25
5		percent, and income tax rates. The study uses a federal tax rate of
6		34 percent for Kennebec.
7	3.	Adjustments eliminating switching termination investment:
8		• 20 percent of the total forward-looking switch investment was
9		excluded for the non-traffic sensitive line portion.
10		• 5 percent of the switch matrix and processor was excluded for their
11		use in the provision of vertical services.
12	4.	The summation of items 1 and 2 less 3 results in the annual net FLEC
13		investment switching or termination cost for Kennebec.
14	5.	In calculating expenses, the direct expenses are first calculated. The direct
15		expenses include the labor costs associated with maintenance and repair of
16		plant and equipment. These amounts were calculated by applying a ratio,
17		based on account relationships in Kennebec's current financial statements,
18		to the total forward-looking switch investment amounts.
19	6.	The common expenses were then calculated. The common expenses
20		include support expenses, marketing expenses split between wholesale and
21		retail, customer services expenses split between wholesale and retail and
22		corporate expense. Common expenses were calculated by applying the
23		relationship of common expenses to direct expenses, based on account

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1		relationships in Kennebec's current financial statements to the total
2		forward-looking switch investment amounts.
3	Trans	sport
4	1.	The total forward-looking transport investment was based on a forward-
5		looking network design.
6	2.	The total forward-looking transport investment also includes:
7		• Power, land and building investment which are based on account
8		relationships in Kennebec's current financial statements for
9		transmission only.
10		• Common investment amounts, which include motor vehicles, work
11		equipment, furniture, office equipment and general purpose
12		computers. Using Kennebec's current financial statements, a ratio
13		of common investment to direct investment was calculated. This
14		ratio was then applied to the projected direct investment amounts
15		to calculate the common investment amounts.
16		• Annual charges were calculated as an annuity based on the
17		prescribed life of each asset account, a rate of return of 11.25
18		percent and income tax rates. The study uses a federal tax rate of
19		34 percent for Kennebec.
20	3.	The following adjustments to transport investment were made:
21		• A portion of total forward-looking transport investment was
22		eliminated for facilities not used in inter-office transport.

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1		• Special transport for inter-office electronics and inter-office plant
2		was eliminated.
3	4.	The summation of items 1 and 2 less 3 results in the annual net FLEC
4		investment transport cost.
5	5.	In calculating expenses, the direct expenses are first calculated. The direct
6		expenses include the labor costs associated with maintenance and repair of
7		plant and equipment. These costs were calculated by applying a ratio,
8		based on account relationships in Kennebec's current financial statements,
9		to the total forward-looking transport amounts.
10	6.	The common expenses were then calculated. The common expenses
11		include support expenses, marketing expenses split between wholesale and
12		retail, customer services expenses split between wholesale and retail and
13		corporate expense. These expenses were calculated by applying the
14		relationship of common expenses to direct expenses, based on account
15		relationships in Kennebec's current financial statements to the total
16		forward-looking transport amounts.
17	<u>Dema</u>	nd
18	1.	The total demand or minutes of use (MOUs), obtained from the most
19		recent traffic studies performed for Kennebec, were used to determine the
20		switching termination rate.
21	2.	Local and dial-up internet MOUs were eliminated from total demand in
22		determining the transport rate.
23	3.	The result of item 1 less item 2 is the net FLEC demand.

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1 2 3	Q.	Do you believe that you have developed FLEC rates for Kennebec that comply with the FCC Rules?
4	А.	Yes, I believe the cost study described in my testimony meets all of the FCC
5		requirements for a FLEC study of transport and termination costs. I recommend
6		that the rate levels provided in my testimony that are based on this FLEC study be
7		approved.
8 9 10 11 12	Q.	In its Response to the Petition for Arbitration of Kennebec, Alltel refers to cost information presented in an arbitration involving Kennebec in 2003. Was there an arbitration hearing between Kennebec and other rural telephone companies in South Dakota and Alltel (then WWC) in 2003?
13 14	А.	No, there was not.
15 16 17 18	Q.	Since there was not an arbitration hearing between Kennebec and Alltel in 2003, was Alltel's estimate of Kennebec's transport and termination cost reviewed by the South Dakota Public Utilities Commission ("SDPUC")?
19 20	А.	No, it was not.
21 22 23 24 25	Q.	Given that Alltel's estimate of Kennebec's transport and termination cost was not reviewed by the SDPUC in 2003, is such information relevant to determining whether Kennebec's proposed transport and termination rates are appropriate pursuant to the pricing standards of 47 U.S.C. §252(d)(2)?
26 27	Α.	No, it is not.
28 29	Q.	Does this conclude your direct testimony?
30	А.	Yes it does.