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STATE OF ALASKA

THE REGULATORY COMMISSION OF ALASKA

Before Commissioners:

Mark K. Johnson, Chair  
Kate Giard  
Dave Harbour  
James S. Strandberg  
G. Nanette Thompson

In the Matter of the Petition by GCI  
COMMUNICATIONS CORP. d/b/a GENERAL  
COMMUNICATION, INC., and d/b/a GCI for  
Arbitration under Section 252 of the  
Telecommunications Act of 1996 with the  
MUNICIPALITY OF ANCHORAGE d/b/a  
ANCHORAGE TELEPHONE UTILITY a/k/a ATU  
TELECOMMUNICATIONS for the Purpose of  
Instituting Local Exchange Competition

U-96-89  
ORDER NO. 42

ORDER SETTING PRICES FOR ACCESS TO UNBUNDLED NETWORK  
ELEMENTS, RESALE AND TERMS AND CONDITIONS OF  
INTERCONNECTION

BY THE COMMISSION:

**Regulatory Commission of Alaska**  
701 West Eighth Avenue, Suite 300  
Anchorage, Alaska 99501  
(907) 276-6222; TTY (907) 276-4533

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I. Summary

This order sets the prices that ACS-AN<sup>1</sup> may charge GCI<sup>2</sup> for access to unbundled network elements and resale and sets the terms and conditions of their interconnection.

II. Background

This is a proceeding to set unbundled network element and resale prices in Anchorage.<sup>3</sup> The Alaska Public Utilities Commission (APUC), our predecessor agency,<sup>4</sup> set interconnection prices in 1997.<sup>5</sup> The Federal Communications Commission (FCC) adopted its total element long run incremental cost (TELRIC) methodology while the arbitration was pending, however TELRIC models that could be used to calculate loop and other unbundled network element (UNE) prices in Alaska were not then available.<sup>6</sup> In that order, the APUC stated “all prices in the arbitrated interconnection agreement are temporary in nature and will require a full study based

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<sup>1</sup>Municipality of Anchorage d/b/a Anchorage Telephone Utility a/k/a ATU Telecommunications (ATU) is now known as ACS of Anchorage, Inc. d/b/a Alaska Communications Systems, ACS Local Service, and ACS (ACS-AN). For purposes of this proceeding, the original case caption will be used.

<sup>2</sup>GCI Communications Corp. d/b/a General Communication, Inc., and d/b/a GCI.

<sup>3</sup>Telecommunications Act of 1996 (the Act), Pub. L. No. 104-104, 110 Stat. 56 (1996) amending the Communications Act of 1934, at 47 U.S.C. § 252. The Act’s specific time constraints do not apply to this proceeding because it is not an initial pricing proceeding. Order U-96-89(15), dated January 8, 2001; Tr. at 67 (December 6, 2000).

<sup>4</sup>We assumed the responsibilities of the APUC on July 1, 1999 under ch. 25, SLA 1999.

<sup>5</sup>Order U-96-89(9), dated January 14, 1997.

<sup>6</sup>*In the Matter of Implementation of the Local Competition Provisions in the Telecommunications Act of 1996*, CC Docket No. 96-98, 11 FCCRcd 15499 (1996).

1 upon a cost methodology to be determined by this Commission at a later date.”<sup>7</sup> On  
2 January 24, 2000, ACS-AN filed a motion to have the Commission establish, by  
3 hearing, a forward-looking economic cost model and methodology to price unbundled  
4 network elements in this docket.<sup>8</sup>

5 We appointed an arbitrator, and began to address the myriad of motions  
6 filed by the parties designed to resolve the issues of model choice. When, despite the  
7 arbitrator’s and parties’ diligent efforts, many issues remained unresolved after two  
8 years, we decided to discontinue the arbitration process and to employ our traditional  
9 hearing process to build a record to resolve the remaining issues. We directed the  
10 parties to file testimony and supporting documentation of their proposals for  
11 interconnection prices for Anchorage.<sup>9</sup>

12 The parties filed direct, responsive and reply testimony in written form on  
13 August 29, 2003, September 29, 2003 and October 13, 2003. A hearing was conducted  
14 November 3-13, 2003, to allow cross-examination and commissioner inquiry. Over two  
15 hundred exhibits were admitted into evidence. We base our decision on this extensive  
16 record.

17 The legal framework for our decision is more richly developed than the last  
18 time we set interconnection prices for Anchorage. The United States Supreme Court  
19 affirmed the FCC’s adoption of TELRIC pricing methodology in *Verizon*  
20 *Communications Inc. v. Federal Communications Commission*.<sup>10</sup> The FCC released the

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21  
22 <sup>7</sup>*Id.* at 3.

23 <sup>8</sup>*Motion to Establish Forward Looking Economic Cost Models and*  
*Methodologies*, filed January 24, 2000.

24 <sup>9</sup>Order U-96-89(35), dated July 14, 2003.

25 <sup>10</sup>*Verizon Communications Inc. v. Fed. Communications Comm’n*, 533 U.S. 467,  
26 122 S.Ct. 1646 (May 13, 2002) (*Verizon*).

1 results of its Triennial Review of interconnection pricing policy<sup>11</sup> and that decision was  
2 reviewed by the District of Columbia Circuit Court of Appeals.<sup>12</sup> That decision became  
3 effective June 16, 2004. It may be further appealed. The FCC also adopted its staff's  
4 recommendation on interconnection pricing in a Virginia case.<sup>13</sup> Finally, the FCC has  
5 an open proceeding to consider changes to the TELRIC pricing methodology.<sup>14</sup> We  
6 render our decision within this evolving legal framework. It is our goal to stabilize the  
7 Anchorage market so that customers can purchase desired services from the company  
8 of their choice and the companies can make reasoned investment decisions.

9 To determine the cost of reconstructing a telephone network in  
10 Anchorage, we examined each of the components of that network and determined its

11  
12 <sup>11</sup>*Review of the Section 251 Unbundling Obligations of Incumbent Local*  
13 *Exchange Carriers*, CC Docket Nos. 01-338 *et al.*, 18 FCCRcd 16978 (2003) (Triennial  
14 Review Order).

15 <sup>12</sup>In an order issued on April 13, 2004, the District of Columbia Circuit Court  
16 stayed the effective date of its reversal of parts of the FCC's Triennial Review Order  
17 until June 15, 2004, to allow industry the opportunity to reach commercial agreements  
18 on these complex issues. *United States Telecom Ass'n v. FCC*, No. 00-1012. On  
19 May 19, 2004, the United States Supreme Court granted the Solicitor General's request  
20 giving the government additional time to decide whether to appeal the circuit court's  
21 ruling. On June 9, 2004, the Office of the Solicitor General informed the FCC that the  
22 government would not appeal the District of Columbia Circuit Court's decision.

23 <sup>13</sup>*In the Matter of Petition of WorldCom, Inc. Pursuant to Section 252(e)(5) of the*  
24 *Communications Act for Preemption of the Jurisdiction of the Virginia State Corporation*  
25 *Commission Regarding Interconnection Disputes with Verizon Virginia Inc., and for*  
26 *Expedited Arbitration*, CC Docket No. 00-218, DA 03-2738 18 FCCRcd 17722  
(Aug. 29, 2003) (*Verizon Virginia*). The FCC stood in the role assigned to states under  
the Act because the Virginia State Corporation Commission declined to hear the case.  
A full discussion of the events leading to preemption of the Virginia Commission can be  
found in the *Non-Cost Arbitration Order*, CC Docket No. 00-218, DA 02-1731 17 FCC  
Rcd 27039 paras. 1-10, 12-13 (July 17, 2002).

<sup>14</sup>*Review of the 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, FCC 03-224, 18 FCCRcd 18945 (Sep. 15, 2003).

1 forward-looking cost. Determining loop prices was the most complex task, because it  
2 required analysis of the details of how the network would be built if it was constructed  
3 anew today. Our task was not to rebuild the existing network, but rather to determine  
4 the price of building it if it was to be redesigned and constructed today.<sup>15</sup>

5 To reach a decision on loop prices in this case, we used one of the loop  
6 models submitted by the parties with inputs modified based on the record. We devoted  
7 considerable time and effort to this task because of the importance of the loop rate to  
8 local competition in the Anchorage market. The loop rate has long been a major point  
9 of contention between ACS-AN and GCI. Although both parties proposed different  
10 models, they also ran the same model (ACS v7.2-G) using a common set of network  
11 design assumptions.

12 The parties used different models to calculate proposed non-loop prices.  
13 The parties frequently disagreed on which rate elements should be produced by the  
14 models. As a result, for most of the non-loop decisions, we chose one model or the  
15 other and all or most of the proposed inputs. With a few minor exceptions, we adopted  
16 this approach for switching and transport, non-recurring costs, and collocation (and  
17 orphan elements). For wholesale prices we found neither of the parties' proposals  
18 entirely acceptable and developed our own model using elements of each of the  
19 competing proposals. Finally, we examine the Operational Support Systems (OSS) and  
20 contract issues that remain after the parties' April 28, 2004 stipulation.<sup>16</sup>

21  
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23  
24 <sup>15</sup>*Southwestern Bell*, 262 U.S. 276, 312; 43 S.Ct. 544 (1923).

25 <sup>16</sup>*Joint Motion Seeking RCA Approval Pursuant to Section 252 of Voluntarily*  
26 *Negotiated Amendment to Interconnection Agreement*, filed April 28, 2004.

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III. Loop Prices

In the months before the hearing, one of the most vigorously litigated issues was which model we should use to calculate loop prices. At the hearing, this debate was essentially resolved. Models are developed and used to set interconnection prices because the task of determining the actual costs of each network element would be so tedious and time consuming as to make the accuracy of the results not justified by the time and effort required to develop them. Instead, the parties choose representative pieces of a network, determine their price with reasonable accuracy, and apply that knowledge to determine a loop price that fairly represents loop costs in that network.

ACS-AN presented a model it developed, the UNE Loop Cost v7.2 Model (ACS v7.2 model), that was revised several times before the hearing. GCI presented its case using the FCC-ANC model.<sup>17</sup> GCI also developed an alternate loop rate based upon its modified version of the ACS v7.2 model (ACS v7.2-G)<sup>18</sup> using a network design different than that proposed by ACS-AN. ACS-AN asserts that the model we use to determine prices is not as significant as the inputs.<sup>19</sup> ACS-AN verified this assertion by using ACS v7.2-G with different price inputs to show that it would produce outputs that closely replicate the results produced by its own model, ACS v7.2.<sup>20</sup>

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<sup>17</sup>The FCC-ANC model “is based on the version of the FCC Synthesis Model adopted by the Commission for use in setting UNE rates during the Fairbanks-Juneau arbitration. GCI has made appropriate modifications to the model for use in anchorage.” T-40 (RAM) 6.

<sup>18</sup>In this order we refer to GCI’s modified version of the ACS v7.2 model as ACS v7.2-G.

<sup>19</sup>Tr. 166; Tr. 239-40 (DCB)

<sup>20</sup>T-10 (WJW) 2-3; Tr. 239 (DCB); Tr. 352 (WJW).



1           The ACS v7.2 model and GCI's version of that model (ACS v7.2-G) are  
2 fundamentally different than most other UNE models. As explained by GCI witness  
3 Mercer, the FCC-ANC is a proxy cost model that:

4           constructs a hypothetical network to serve known customer  
5 locations. In doing so, it does not specifically account for  
6 geographic and manmade attributes of the area being modeled. It  
7 does, however, take account of such attributes in a statistical way,  
8 for instance, by increasing the amount of cable routing distances  
9 compared to straight line routing in order to account for the need to  
10 route around obstacles.<sup>21</sup>

11           In contrast, ACS v7.2 and ACS v7.2-G utilize the results of an engineering  
12 design of a portion of the Anchorage network taking into account specific geographic  
13 and manmade features within the sample areas.<sup>22</sup> The ACS v7.2 model was created  
14 with data collected by surveying all of the existing routes within the sample census block  
15 groups (CBGs). GCI's consultants verified the ACS-AN data and made some  
16 modifications. Because this was a model created with local data to determine  
17 Anchorage prices, and both parties have verified its underlying assumptions, we  
18 conclude that it can be used to determine the cost of rebuilding the network in  
19 Anchorage with reasonable accuracy.<sup>23</sup>

20 A. Structural Changes -- Demand and Network Design

21           GCI made several structural changes to the ACS v7.2 model. One of the  
22 most fundamental was to change the underlying assumption about customer demand.  
23 GCI adjusted the ACS v7.2 model to reflect current demand. Witness Mercer explained

24 <sup>21</sup>T-40 (RAM) 27-28.

25 <sup>22</sup>T-40 (RAM) 13-14, 27.

26 <sup>23</sup>The use of this model in this proceeding should not be considered precedent  
for determining UNE prices in other competitive markets. Both parties made significant  
investments to develop, understand and use this model, however the ACS v7.2 model is  
specific to Anchorage and cannot be used elsewhere.

1 that GCI designed the feeder network from scratch and applied a distribution network  
2 cable “resizer” to enable the model to produce results based on current rather than  
3 projected (or ultimate) demand.<sup>24</sup> These adjustments were consistent with the  
4 arbitrator’s decision<sup>25</sup> and our order affirming that ruling.<sup>26</sup> Without this adjustment the  
5 model designed a network to meet ultimate demand but set prices based on current  
6 demand. We find that GCI’s “resizer” adjustment, using a consistent demand figure in  
7 both the numerator and the denominator, produced more accurate results.<sup>27</sup>

8           The ACS v7.2 model, with GCI’s network and demand adjustments (ACS  
9 v7.2-G) includes a factor for future growth. We find that it is reasonable to plan for  
10 future increases in customer demand to the existing network, but not to develop current  
11 prices based on construction of a network to serve every possible subdivided lot in  
12 Anchorage, regardless of whether there are current plans to construct any facilities  
13 there. The reasonable growth factor included in the adjusted model assumes that  
14 demand will continue to grow at a rate consistent with historical trends and builds a  
15 network adequate to serve projected demand for the next five years.<sup>28</sup>

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19           <sup>24</sup>RAM-2.

20           <sup>25</sup>Arbitration Order A-3, dated April 16, 2003.

21           <sup>26</sup>In an electronic ruling issued October 29, 2003, we supported the arbitrator’s  
22 decision that the demand factors must be consistent. That ruling was affirmed by Order  
U-96-89(39), dated April 16, 2004.

23           <sup>27</sup>With respect to the ultimate/current demand issue, we believe the changes  
24 made to the feeder system were less significant than the changes made to the  
distribution system. Cinelli stated the changes made by GCI to feeder design were  
“insignificant.” T-15 (SDC) 2.

25           <sup>28</sup>RAM-2.

1 GCI also modified the model to enable it to generate common and general  
2 support costs that relate to the level of investment used by the model.<sup>29</sup> The ACS  
3 version of the v7.2 model calculates these indirect costs using largely embedded costs  
4 (either its own or based upon an FCC universal service proxy model) that do not vary  
5 significantly with the level of investment produced by the model.<sup>30</sup> We find that GCI's  
6 modification results in a more accurate calculation of common and general support  
7 costs.

#### 8 B. Loop Model Inputs

9 The ACS v7.2-G model begins with an engineering process that designs  
10 and maps a sample of Anchorage census block groups (CBGs).<sup>31</sup> The model then  
11 calculates a final UNE-loop rate and sub-loop rates using a set of integrated  
12 spreadsheets. GCI describes the spreadsheet portions of the model as follows:

- 13 • The component compiler records the results of the design process and  
14 allocates the amounts of various network components leading to the  
15 final network component list.
- 16 • The integrator acquires the network component list and uses a set of  
17 user-adjustable network component unit investments to convert the list  
18 into network investments in various categories of plant.
- 19 • The cost calculator uses a set of user-adjustable expense inputs to  
20 convert the investments into the monthly loop costs.

---

22 <sup>29</sup>See electronic exhibit RAM-9. ACS 7.2-G and HAI-SWT Model Runs/Anc  
23 expense/GCIexpense.xls, E-General and E-Common worksheets.

24 <sup>30</sup>See Cost Models and Support Documentation, \_1\_UNE/ACS v7.2 UNE  
25 Model/Cost Calculator ACS Financial Input Defaults.xls, E-General and E-Common  
26 worksheets, filed by ACS-AN on August 29, 2003.

<sup>31</sup>T-40 (RAM) 15.

1           Because the ACS-AN and GCI versions of ACS v7.2-G both use the same  
2 network design, the network component list for both companies is identical. The parties  
3 present different cost proposals for each network component unit.<sup>32</sup> In the paragraphs  
4 that follow, we describe our input findings.

5           1. Depreciation

6           We recently compiled an extensive record on depreciation rates for  
7 ACS-AN in that company's pending proceeding to set retail rates.<sup>33</sup> The parties  
8 presented the same witnesses to support their depreciation positions in this case.<sup>34</sup>

9  
10           <sup>32</sup>To better understand the mechanics of ACS v7.2-G, we prepared graphic  
11 representations of the spreadsheets that compose ACS v7.2-G: Appendix A (simplified)  
12 and Appendix B (expanded). Appendix A shows the worksheets that compose the  
13 model and how calculations generally flow from one spreadsheet to the next. The  
14 model process begins at the upper left with network components compiled from design  
15 maps and individual CBG spreadsheets. (There are no network component inputs per  
16 se. The type and quantity of network components is determined by the engineering  
17 design process, *i.e.*, the design and mapping process.) The Materials Database  
18 contains "user adjustable unit investment" inputs. These inputs include items such as  
19 the cost of variously sized cables (per foot), trenching and excavation cost (per foot),  
20 installation of manholes (per manhole). The MaterialList calculates investment by  
21 component. The Inputs worksheet contains input cells for depreciation factors, cost of  
22 equity, cost of debt, debt ratio and a few other inputs. The cost calculator worksheets  
23 use data from MaterialList and Input worksheets, as well as maintenance factor inputs,  
24 to calculate direct costs for each subloop element (feeder, distribution, concentrator,  
25 and network interface device (NID)). The E-Common and E-General worksheets  
26 calculate common and general support. The E-Summary worksheet combines direct  
expense with common and general support costs and other miscellaneous costs to  
produce the final loop rate and sub-loop rates.

21           <sup>33</sup>Order U-01-34(24), dated August 22, 2003. Docket U-01-34 is titled *In the  
22 Matter of the Investigation of the Local Exchange Revenue-Requirement, Depreciation,  
23 Cost-of-Service, Rate Design Studies, and Tariff Rate Revisions Designated as  
24 TA429-120 and TA431-120 Filed by ACS OF ANCHORAGE, INC. d/b/a ALASKA  
25 COMMUNICATIONS SYSTEMS, ACS LOCAL SERVICE, and ACS.*

24           <sup>34</sup>In Docket U-01-34 and in this docket, Terance J. Cooney and Jerome C.  
25 Weinert presented depreciation testimony on behalf of ACS-AN and Michael J. Majoros,  
26 Jr. presented depreciation testimony on behalf of GCI.

1 Although TELRIC pricing principles may require some adjustments, we believe that it is  
2 reasonable to use the rates established in that case as a starting point for our analysis  
3 here.

4 The FCC's recent *Verizon Virginia* order provides some guidance for our  
5 decision on appropriate depreciation rates. In that case, the FCC interpreted the  
6 Triennial Review Order as declining to set particular rates. Instead, the FCC  
7 acknowledged that the states were to apply their expertise and knowledge of local  
8 market conditions to set fair rates and consider adjustments to reflect the declining  
9 value of assets in competitive markets.<sup>35</sup> Both parties agreed that this was the  
10 appropriate standard, but they disagreed on how it should be applied in this case.

11 Depreciation rates are set to allow a company to recover the cost of its  
12 investment over the useful life of the equipment. As the FCC suggested, that useful life  
13 may be different in markets with facilities-based competition than it would be in a  
14 traditional monopoly market. The FCC explained that we should assume that in the  
15 long run the incumbent will be forced to respond to competition by eventually replacing  
16 its network with current technology.<sup>36</sup> Timing is the key to resolving the differences in  
17 the parties' positions. We must assume that ACS-AN will be forced to replace its  
18 network over time if it is to continue as a viable competitor in the Anchorage market.

19 ACS-AN argued that we should consider GCI's announced plans to begin  
20 serving its customers with its own network, and thus to depreciate its existing network

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22 <sup>35</sup>*In the Matter of Petition of WorldCom, Inc. Pursuant to Section 252(e)(5) of the*  
23 *Communications Act for Preemption of the Jurisdiction of the Virginia State Corporation*  
24 *Commission Regarding Interconnection Disputes with Verizon Virginia Inc., and for*  
25 *Expedited Arbitration*, CC Docket No. 00-218, DA 03-2738 18 FCCRcd 17722  
(Aug. 29, 2003) (*Verizon Virginia*) at 18.

26 <sup>36</sup>*Verizon Virginia* at 19.

1 rapidly based on the assumption that its remaining useful life was short.<sup>37</sup> ACS-AN  
2 witness Cooney argued that these downward adjustments were necessary to reflect the  
3 dramatic share of the market captured by ACS-AN's competitors. During the hearing he  
4 argued for an additional adjustment to rates to compensate ACS-AN for its market  
5 share loss.<sup>38</sup> ACS-AN witness Weinert argued that ACS-AN's depreciation lives should  
6 be shortened because changes in technology and increasing customer demand for  
7 broadband require ACS-AN to install a packet-switched network to replace its existing  
8 network.<sup>39</sup>

9 We are not persuaded by the testimony of Sprain that ACS-AN lacks the  
10 capital to make necessary network maintenance and improvements.<sup>40</sup> His testimony  
11 was inconsistent with the testimony of witness Meade that local service revenues have  
12 increased.<sup>41</sup> ACS-AN's publicly filed financial statements also support our  
13 understanding that the local service portion of ACS-AN's operations is profitable.<sup>42</sup>

14 We are also not persuaded that the depreciation rates need to be adjusted  
15 further now based on speculation that ACS-AN will lose a significant portion of its  
16 customer base when GCI offers local service via cable telephony. The FCC has  
17 directed us to reflect the declining asset value of the incumbent's plant that may result  
18 from the introduction of competition into the market.<sup>43</sup> The value of ACS-AN's plant may

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20 <sup>37</sup>Tr. 451-61 (TJC); T-25 (TJC) 10; T-26 (TJC) 7-8.

21 <sup>38</sup>Tr. 454-56 (TJC). On cross-examination, Mr. Cooney confirmed ACS-AN was  
proposing a \$28.65 loop rate. Tr. 466 (TJC).

22 <sup>39</sup>Tr. 553-56, 566-67 (JCW); T-28 (JCW) 4-5

23 <sup>40</sup>Tr. 486-87 (KLS); T-33 (KLS) 7.

24 <sup>41</sup>TRM-24 at 2.

25 <sup>42</sup>T-47 (GFC) 1-7.

26 <sup>43</sup>Triennial Review Order, ¶ 685; *Verizon Virginia* at 49-50.

1 decline if a facilities-based competitive service becomes available in the market and  
2 ACS-AN experiences a significant decline in use of its network as a result. However,  
3 the record in this proceeding suggests that ACS-AN has continued to experience steady  
4 growth in use of its network.<sup>44</sup> In constructing its model, ACS-AN planned for continued  
5 steady growth of its network, rather than decline.<sup>45</sup> Thus, ACS-AN's pricing proposal for  
6 its network that is based on the assumption of continued expansion of its network to  
7 meet increasing demand is inconsistent with its argument that it should be allowed  
8 higher rates of depreciation because of the prospect of future network declines.

9 GCI argued that the rates at the high end of the FCC ranges are most  
10 appropriate.<sup>46</sup> Majoros argued that ACS-AN's prospective loss of use of its network  
11 when GCI began using cable telephony to serve its customers was too speculative. He  
12 suggested that, if we determined it was necessary to adjust prices to reflect the loss of  
13 use of the network, adjustment should be made to fill factors or cost of capital, but not to  
14 depreciation.<sup>47</sup> We concur and reflect the impact of the competitive market in the cost  
15 of capital calculation.

16 We therefore apply the depreciation schedules used in the recent rate  
17 proceeding.<sup>48</sup> There was nothing presented in this record that has persuaded us that  
18 the asset value of ACS-AN's network will decline any more quickly than we then  
19 believed. In that proceeding, we considered the prospective impact of facilities-based

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20 <sup>44</sup>Tr. 339-40 (WJW); TRM-2 by Shoup at Tr. 167.

21 <sup>45</sup>Tr. 339-340.

22 <sup>46</sup>Tr. 1364-76 (MJM); MJM-4.

23 <sup>47</sup>Tr. 1374 (MJM).

24 <sup>48</sup>We set depreciation lives in Order U-01-34(15) and required ACS-AN to file  
25 revised depreciation schedules. We later learned that our decision was based, in part,  
26 on incorrect information and reopened the record to allow ACS-AN to correct the record  
and set final depreciation lives. Order U-01-34(24), dated August 22, 2003.

1 competition.<sup>49</sup> Depreciation rates for those elements of ACS-AN's network likely to be  
2 affected by competition were set in that proceeding at the low end of the FCC range to  
3 reflect the impact of competition faced by the incumbent.<sup>50</sup>

4 2. Cost of Capital

5 Embedded in the TELRIC price of each UNE is a profit component which  
6 the FCC states equals a company's cost of capital. Capital is the blend of equity and  
7 debt used to fund an organization's corporate purpose (called Capital Structure). Both  
8 have associated costs. The use of equity requires a return to the stockholder, (Cost of  
9 Equity) while the use of debt has an associated interest cost (Cost of Debt). These  
10 factors, capital structure, costs of equity and debt comprise the traditional rate of return  
11 calculation for regulated enterprises.

12 A TELRIC compliant cost of capital also reflects the impact of highly  
13 competitive markets on capital structure, cost of equity and cost of debt. TELRIC  
14 assumes that markets may develop with multiple carriers providing local exchange  
15 services over their own facilities rather than over the lines leased from the incumbent  
16 local exchange carrier. The FCC requires states to establish a cost of capital that  
17 "reflects the competitive risks associated with participating in the type of market that

18 \_\_\_\_\_  
19 <sup>49</sup>Order U-01-34(15)/U-01-66(5)/U-01-82(11)/U-01-83(11)/U-01-84(11)/  
20 U-01-85(11)/U-01-86(11)/U-01-87(11), dated June 6, 2002 (Order U-01-34); Order  
21 U-01-34(24), dated August 22, 2003.

22 <sup>50</sup>We conclude that the best remaining option is to select a service life for  
23 each of the Metallic Cable Accounts at the low end of the FCC range (20  
24 years for aerial, 25 years for underground, and 20 years for buried plant).  
25 We select from the low end of the FCC range because ACS-AN faces a  
26 high level of retail competition in much of its market. Using the low end of  
the FCC range provides for a reasonable depreciation rate as it reflects a  
national standard adopted by a regulatory body with knowledge and  
experience with the telecommunications industry  
Order U-01-34(24), dated August 22, 2003, at 11-12.



1 TELRIC assumes<sup>51</sup> and therefore, the TELRIC model “must reflect the risks of a market  
2 . . . which . . . faces facilities-based competition.”<sup>52</sup>

3 The FCC stated “the currently authorized rate of return at the federal or  
4 state level is a reasonable starting point for TELRIC calculations.”<sup>53</sup> The most recent  
5 cost of capital for ACS-AN was in a stipulation<sup>54</sup> accepted by the Commission<sup>55</sup> and  
6 summarized below.

Stipulated Cost of Capital Accepted in Order U-01-34(15)	Percent
Capital Structure is comprised of:	
Equity Portion	55.0
Debt Portion	45.0
Total	<u>100.0</u>
Cost of Debt	8.60
Cost of Equity	13.25
Weighted Average Cost of Capital	11.16

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16 <sup>51</sup>*Review of the Section 251 Unbundling Obligations of Incumbent Local  
17 Exchange Carriers*, CC Docket Nos. 01-338 et al., 18 FCCRcd 16978 (2003) ¶ 681.

18 <sup>52</sup>*In the Matter of Petition of WorldCom, Inc. Pursuant to Section 252(e)(5) of the  
19 Communications Act for Preemption of the Jurisdiction of the Virginia State Corporation  
20 Commission Regarding Interconnection Disputes with Verizon Virginia Inc., and for  
21 Expedited Arbitration*, CC Docket No. 00-218, DA 03-2738 18 FCCRcd 17722  
(Aug. 29, 2003) (*Verizon Virginia*) ¶ 63.

22 <sup>53</sup>*In the Matter of Implementation of the Local Competition Provisions in the  
23 Telecommunications Act of 1996*, CC Docket No. 96-98, 11 FCCRcd 15499, 15846  
(1996).

24 <sup>54</sup>*Stipulation of the Parties Concerning Cost of Capital and Pro Forma  
25 Adjustments to the ACS LECs Revenue Requirements*, filed March 1, 2002  
(Stipulation). The parties consisted of the ACS LECs, GCI, Alascom, Inc. d/b/a AT&T  
26 Alascom and Public Advocacy Section of the RCA.

<sup>55</sup>Order U-01-34(15), dated June 6, 2002.

1           The FCC allowed that “[s]tates may adjust the cost of capital if a party  
2 demonstrates to a state commission that either a higher or lower cost of capital is  
3 warranted.”<sup>56</sup> We consider the 11.16 percent stipulated rate as traditional cost of capital  
4 without the impact of TELRIC-style competition. GCI witness Murray argued that the  
5 TELRIC cost of capital should be at 8.02 percent.<sup>57</sup> ACS-AN witness Blessing argued  
6 that the TELRIC cost of capital should be 12.26 percent.<sup>58</sup> After weighing the individual  
7 cost of capital components, we adopt a 14.28 percent TELRIC cost of capital for this  
8 proceeding.

9           Several factors cause us to increase the TELRIC cost of capital above the  
10 11.16 percent starting point in the Docket U-01-34 rate case stipulation. First, we adopt  
11 the capital structure stipulated in Docket U-01-34 to reflect a TELRIC capital structure  
12 based on market values. Second, we apply ACS-AN’s actual overall cost of debt at  
13 10.33 percent<sup>59</sup> to the TELRIC cost of capital model. Third, we calculate the TELRIC  
14 cost of equity at 17.51 percent. We find the resulting weighted average cost of capital  
15 of 14.28 percent reflects the higher cost of debt and investor returns required to operate  
16 in a TELRIC environment.

17           We compare the 14.28 percent overall weighted average cost of capital  
18 with the 12.95 percent resulting from *Verizon Virginia*. The FCC found that “the cost of  
19 capital calculation is intended to reflect the cost of capital of a telecommunications  
20 carrier that operates in a market with facilities-based competition.”<sup>60</sup> In the Anchorage  
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22           <sup>56</sup> *Verizon Virginia*, ¶ 58.

23           <sup>57</sup> T-43 (TLM) 20.

24           <sup>58</sup> T-3 (DCB) 47.

25           <sup>59</sup> T-3 (DCB) 48.

26           <sup>60</sup> *Verizon Virginia*, ¶ 67.

1 retail market, ACS-AN, as an incumbent LEC, retains approximately 50 percent of the  
2 market share it held as a monopoly carrier.<sup>61</sup> The record also indicates facilities-based  
3 competition is likely to occur in ACS-AN's market in the near term.<sup>62</sup>

4 Here we find an important distinction in the theoretical market structures  
5 that form the basis for determination of competitive risk in *Verizon Virginia* and the  
6 market conditions that now exist and may soon exist in Anchorage. In *Verizon Virginia*,  
7 AT&T/WorldCom assumed that Verizon would remain the dominant carrier in the market  
8 for the foreseeable future.<sup>63</sup> Verizon argues that TELRIC assumes more competition  
9 than exists today, and it would be inappropriate to assume Verizon will remain the  
10 dominant company in the local market.<sup>64</sup> Both parties agree that Verizon is currently the  
11 dominant company. This is not the case in Anchorage. The Anchorage retail market is  
12 highly competitive under a UNE pricing mechanism and stands poised to enter a  
13 facilities-based competition. We find these dramatically different market conditions  
14 reasonably justify the award of a 14.28 percent cost of capital in this proceeding.

15 a) Capital Structure

16 ACS-AN proposes the hypothetical capital structure accepted in Docket  
17 U-01-34 comprised of 55 percent equity and 45 percent debt.<sup>65</sup> GCI proposes a  
18 hypothetical capital structure comprised of 49.79 percent common equity and 50.21  
19 percent debt.<sup>66</sup> GCI derived its hypothetical capital structure by averaging the book and  
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21 <sup>61</sup>T-3 (DCB) 30; T-46 (DLT) 9.

22 <sup>62</sup>T-46 (DLT) 4-5.

23 <sup>63</sup>*Verizon Virginia*, ¶ 62.

24 <sup>64</sup>*Verizon Virginia*, ¶ 61.

25 <sup>65</sup>T-3 (DCB) 47.

26 <sup>66</sup>T-43 (TLM) 26.

1 market values of common equity over equity plus debt of ACS-AN together with six  
 2 comparable companies.<sup>67</sup>

3 GCI Cost of Capital Proposal <sup>68</sup> 4 Common Equity/ Equity Plus Debt	Percent Common Equity	Percent Debt	Total
5 Average Book Value of ACS plus 6 six Comparable Companies <sup>69</sup>	42.22	57.78	100
7 Average Market Value of ACS plus six Comparable Companies	57.36	42.64	100
8 Average Book Value to Market Value	49.79	50.21	100

9  
 10 The FCC stated in its *Virginia Verizon* order, “[i]n calculating TELRIC  
 11 prices, the theoretically correct capital structure is based on market values of debt and  
 12 equity, not on book values” and that “use of a capital structure based on market values,  
 13 rather than book values . . . is entirely appropriate under the Act.”<sup>70</sup> Therefore, we give  
 14 no weight to the book value data provided by GCI and instead compare the capital  
 15 structure proposed by ACS-AN with the market value proxy provided by GCI.

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 17 <sup>67</sup>Six comparable companies presented are: ALLTEL Corporation (AllTel),  
 18 Cincinnati Bell, Inc. (Cincinnati Bell), CenturyTel, Inc. (CenturyTel), Citizens  
 Communications Company (Century Communications), Commonwealth Telephone  
 Enterprises, Inc., and Surewest Communications (SureWest). T-43 (TLM) 22, 23.

19 <sup>68</sup>Electronic Exhibit TLM-2, Murray Cost of Capital Workpapers.xls, Capital  
 20 Structure

21 <sup>69</sup>See Electronic Exhibit TLM-2, Murray Cost of Capital Workpapers.xls, Capital  
 Structure.

22 <sup>70</sup>Investors would not earn the return that they require if a cost of capital  
 23 that is based on book value is applied to the economic value of their  
 24 assets, given that rational investors value these assets at market value.  
 Thus, the use of a capital structure based on market values, rather than  
 25 book values, represents a departure from traditional ratemaking, but one  
 that is entirely appropriate under the Act.

26 *Verizon Virginia*, ¶ 102.

1 We find that the market value analysis performed by GCI using six  
2 comparable companies and ACS-AN results in a substantially similar hypothetical  
3 capital structure to what we approved in the Stipulation.<sup>71</sup> We therefore use the market  
4 value data provided by GCI as a benchmark to determine that ACS-AN's proposed  
5 capital structure is within the TELRIC zone of reasonableness.

6 b) Cost of Debt

7 ACS-AN proposes a cost of debt of 8.60 percent based on the  
8 Stipulation.<sup>72</sup> GCI proposes a blended cost of debt of 5.84% resulting from a weighting  
9 of 93.97 percent long term debt cost at 6.0 percent and a 6.03 percent short term debt  
10 cost at 3.37 percent.<sup>73</sup> We adopt ACS-AN's actual cost of debt of 10.33 percent. We  
11 follow the practice of the FCC in *Verizon Virginia* wherein it stated, "the cost of capital  
12 calculation is intended to reflect the cost of capital of a telecommunications carrier that  
13 operates in a market with facilities-based competition."<sup>74</sup> We find because ACS-AN  
14 operates in a sufficiently competitive environment and will operate in a true facilities-  
15 based competitive market in the near future, that the actual cost of debt more closely  
16 approximates the costs associated with operating in TELRIC markets.

17 GCI witness Murray's computation of the cost of debt is a based, in part,  
18 on the assumption that a hypothetical efficient carrier in a facilities-based competitive  
19 market should be able to maintain an A3/A- bond rating. GCI then derives an interest  
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21 <sup>71</sup>Order U-01-34(15), dated June 6, 2002.

22 <sup>72</sup>T-3 (DCB) 47.

23 <sup>73</sup>T-43 (TLS) 46.

24 <sup>74</sup>*Verizon Virginia*, ¶ 67. In that proceeding, AT&T/Worldcom stated, "that the  
25 best estimate of the cost of debt is the weighted average cost over all of the subject  
26 company's outstanding issues, including the debt of the holding company and any  
subsidiaries." *Id.* at 66.

1 rate spread of 1.09 percent between utility bonds with an A3/A- bond rating and the  
2 yield to maturity on a 10-year Treasury bond. The spread is then added to the interest  
3 rate on a 10-year Treasury bond and forecasted 10 years into the future<sup>75</sup> to arrive at  
4 the future cost of long-term debt financing for a hypothetical efficient carrier. This future  
5 cost is then averaged with the current cost of debt, which is the sum of the current  
6 spread plus the current 10-year Treasury bond, resulting in a long term debt cost of 6.0  
7 percent. This same procedure is applied to short-term debt, using Treasury bonds of  
8 1-year maturities, resulting in a short term debt estimate of 3.37%.<sup>76</sup> These rates are  
9 then weighed according to the proportion of long term debt (93.97 percent) versus short  
10 term debt (6.03 percent) in the average capital structures of ACS-AN plus six  
11 comparable companies.<sup>77</sup> The final outcome is a blended debt cost of 5.84%.

12 We find GCI's analysis unpersuasive for several reasons. Using generic  
13 utility bonds as the initial assumption does not adequately assure a fair comparison to  
14 the competitive markets that TELRIC assumes. Generic utility bonds can include the  
15 whole population of utility industries, some of which may be competitive, some of which  
16 may remain regulated monopolies but very few, if any, operate in an environment of  
17 facilities-based competition. Further, the computation rests on the difference in interest  
18 rates (spread) between utility bonds with a bond rating of A3/A- and the yield-to-maturity  
19 of a 10-year Treasury bond.  
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23 <sup>75</sup>The forecast came from the Philadelphia Federal Reserve Bank's *Survey of*  
24 *Professional Forecasters*. T-43 (TLM) 45.

25 <sup>76</sup>T-43 (TLM) 45.

26 <sup>77</sup>T-43 (TLM) n.58.

1 We have no record by which to evaluate whether the spread of 1.09  
2 percent that GCI proposes would likely be larger or smaller in the highly competitive  
3 facilities-based markets envisioned by TELRIC.

4 In *Verizon Virginia*, the FCC rejected Verizon's use of generic industrial  
5 bonds as a proxy for determining cost of debt. Instead, the FCC selected  
6 AT&T/WorldCom's cost of debt stating,

7  
8 AT&T/WorldCom's proposal to use the cost of debt for Bell Atlantic and  
9 GTE is the better of the two proposals because it at least reflects the cost  
10 of companies in the relevant industry. In contrast, Verizon has not  
demonstrated that the debt costs faced by S&P companies generally are  
at all related to the costs telecommunications carriers would face in a  
market with facilities-based competition"<sup>78</sup>

11 ACS-AN proposed using a cost of debt of 8.6 percent in its initial prefiled  
12 testimony but in his opposition testimony, witness Blessing notes "[i]f we followed the  
13 Verizon-Virginia example and used the actual yield-to-maturity of ACS' debt in the  
14 calculation of the stipulated WACC, the resulting cost of debt would increase to  
15 10.33%."<sup>79</sup> We concur and apply ACS-AN's actual cost of debt in our cost of capital  
16 calculation.

17 c) Cost of Equity

18 ACS-AN proposes a cost of equity of 15.25 percent, which uses the  
19 stipulated cost of equity of Docket U-01-34, adjusted upward by 200 basis points to  
20 reflect increased risk.<sup>80</sup>

21 GCI proposes a cost of equity of 10.22 percent based on averaging  
22 estimates of a cost of equity calculated under a three-stage discounted cash flow (DCF)

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24 <sup>78</sup>*Verizon Virginia*, ¶ 67 (footnote omitted).

25 <sup>79</sup>T-4 (DCB) 29.

26 <sup>80</sup>T-3 (TCM) 49.

1 model of 10.11 percent with the cost of equity of 10.33 percent calculated under a  
2 Capital Asset Pricing Model (CAPM).<sup>81</sup> Both methods result in substantially similar  
3 outcomes. We use the CAPM model and find the TELRIC cost of equity for ACS-AN at  
4 17.51%.

5           The three-stage DCF model relies on current dividend yields, combined  
6 with short term (5 years) and long term growth (15 years) projections based on three  
7 comparable companies.<sup>82</sup> The CAPM model calculates the cost of equity based on the  
8 earning opportunity embodied in a risk-free investment option (Treasury bonds),  
9 adjusted by the product of beta, which measures the market volatility of a company's  
10 stock and a risk premium, which is the difference between the rate of return an investor  
11 expects to earn and the return available in the risk-free investment.

12           We find the CAPM model is better suited to the calculation of cost of  
13 equity in this proceeding. The DCF model is less suited to a TELRIC cost of capital  
14 because it uses assumptions about the current dividend yield and forecasts of company  
15 growth patterns. In traditional rate of return regulation, where growth patterns are  
16 modeled based on actual historical performance of relevant companies, the DCF  
17 method produces reliable outcomes.<sup>83</sup> However, a TELRIC environment is purely  
18 theoretical and lacks the benchmarks of average life cycles or historical growth patterns.  
19 In the early years of facilities-based competition there may be negative growth patterns  
20 while the incumbent adjusts to the new competitive regime.

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21 <sup>81</sup>T-43 (TLM) 42.

22 <sup>82</sup>The companies are AllTel, CenturyTel and SureWest. *Id.* at 32.

23 <sup>83</sup>GCI witness Murray quotes Ibbotson Associates, a recognized industry source  
24 for regulatory analysis of cost of capital, “[o]ne of the advantages of a three-stage  
25 discounted cash flow model is that it fits with the life cycle theories in regards to  
26 company growth. . . . Typically, the potential for extraordinary growth in the near term  
eases over time and eventually growth slows to a more stable level.” *Id.* at 30.



1 Both parties presented CAPM cost of equity estimates, although ACS-AN  
2 did not offer its CAPM analysis in its presentation of its case, but rather adjusted the  
3 stipulated cost of capital of 13.25% in Docket U-01-34 upward by 200 basis points. The  
4 stipulated cost of capital in that proceeding resulted, in part, from a CAPM analysis  
5 performed by the Public Advocacy Section.

6 We compare the details of the CAPM estimates prepared by each party  
7 and select the subcomponent which is best supported. We then calculate cost of equity  
8 and compare it with the results in *Verizon Virginia*.

9

CAPM Subcomponent	ACS-AN <sup>84</sup>	GCI	RCA
Risk Free Rate	5.34%	4.91%	5.34%
Beta	2.730%	1.133%	1.133%
Risk Premium	7.00%	4.78%	7.00%
Size Premium	3.53%	0.00%	3.53%
Flotation Cost	0.10%	0.00%	0.00%
Cost of Equity	28.08%	10.33%	17.51%

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17 (i) Risk Free Rate

18 We select the Risk Free Rate of 5.34 percent offered by ACS-AN. Both  
19 parties use Treasury bonds as the basis for the risk-free rate of return. ACS-AN selects  
20 the 30-year Treasury bond rate while GCI offers an average of a 10-year forecasted  
21 rate and the current rate on 10-year Treasury bonds. The resulting difference between

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23 <sup>84</sup>ACS-AN witness Blessing provides several different CAPM scenarios which  
24 vary based on the application of beta which ranges between 2.730 percent using an  
25 derived ACS-specific beta and a leveraged beta of .98 based on an average of  
26 comparable companies. As is shown at DCB-2, Exhibit 2.3, the result of this analysis  
produces costs of equity ranging from 28.08 percent using ACS-AN specific beta to  
15.82 percent using the peer capital structure.

1 the methods is 43 basis points and not significant. While this is true, we prefer the more  
2 straightforward use of the 30-year Treasury bond because it more closely matches the  
3 long-term time horizons used by industry experts Ibbotson & Associates to determine  
4 market risk premiums.

5 (ii) Beta

6 ACS-AN offers two calculations of beta, an ACS-AN specific beta of 2.730  
7 and a beta based on a peer group of 0.98. GCI offers a beta of 1.133 based on an  
8 analysis of forecasted betas of comparable companies, leveled for the differences in tax  
9 rates and leverage.<sup>85</sup> We select the beta offered by GCI because it is more fully  
10 supported in the record and uses methods common in the industry.

11 The ACS-AN specific beta calculation applies an unleveraged beta of  
12 comparable companies to ACS-AN's capital structure, after adjusting for ACS-specific  
13 corporate tax rate.<sup>86</sup> As has been noted before, ACS-AN's capital structure is highly  
14 leveraged and unusual in the telecommunications industry. We find no justification to  
15 shift from a hypothetical capital structure to an ACS-AN specific capital structure to  
16 determine beta. GCI's beta analysis, on the other hand, relies on generally accepted  
17 methods recommended by industry experts to isolate business risk. Further, GCI  
18 presented supporting documentation in the record for the companies it selected for its  
19 comparable analysis. We consequently find GCI's presentation more persuasive.

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<sup>85</sup>T-43 (TLM) 35-36.

25 <sup>86</sup>DCB-2, Exhibit 2.3 at 2

1                    (iii) Risk Premium

2                    ACS-AN offers a risk premium of 7.0 percent.<sup>87</sup> GCI offers a risk premium  
3 of 4.78 percent.<sup>88</sup> We select the risk premium of 7.0 percent based on the reasoning in  
4 *Verizon Virginia*. ACS-AN uses the market risk premium from Ibbotson Associate's  
5 SBBI 2002 Yearbook – Valuation Edition. GCI also uses the same market risk premium  
6 from Ibbotson, calling it the “most widely cited historical equity premium”<sup>89</sup> but questions  
7 whether Ibbotson's premium accurately reflects expected returns of stocks relative to  
8 bonds. To address its concern, GCI averages the Ibbotson market premium with the  
9 market premiums cited in several studies<sup>90</sup> published in current industry literature. The  
10 FCC selected the Ibbotson Associates risk premium for its CAPM analysis. GCI's  
11 calculation provides equal weight to the Ibbotson index as to studies published in  
12 current literature. We do not equate studies, which may or may not be subsequently  
13 proven and accepted by industry, with a widely cited industry standard such as  
14 Ibbotson. Therefore, based on guidance from the FCC and our concerns about GCI's  
15 methods, we find the 7.0 percent market risk premium used by ACS-AN more  
16 persuasive.

17                    (iv) Size Premium Adjustment

18                    ACS-AN offers a size premium adjustment to the CAPM of 3.53 percent to  
19 account for the differences in returns between smaller and larger firms. ACS-AN's size  
20 premium adjustment comes from Ibbotson's SBBI 2003 Yearbook. ACS-AN states  
21 Ibbotson's found a relationship exists between firm size and return wherein return

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23                    <sup>87</sup>DCB-2, Exhibit 2.3.

24                    <sup>88</sup>T-43 (TLM) 41.

25                    <sup>89</sup>*Id.* at 40.

26                    <sup>90</sup>*Id.* at 37-38.

1 increases as the firm size decreases.<sup>91</sup> ACS-AN states that its current market  
2 capitalization of \$126.3 million falls into the Ibbotson's smallest decile which has a  
3 CAPM of 353 basis points.<sup>92</sup>

4 GCI does not offer a size premium adjustment and argues against a size  
5 premium adjustment to ACS-AN's CAPM calculation. GCI witness Murray states that  
6 TELRIC required an estimated cost of equity for a hypothetical efficient carrier subject to  
7 facilities-based competition and that there is no reason to assume that this carrier would  
8 be a firm as small as ACS-AN.<sup>93</sup> GCI further argues that ACS-AN misapplied the size  
9 premium adjustment to its calculated CAPM. Witness Murray explains that Ibbotson  
10 Associates describes the size premium as an adjustment to the CAPM to reflect the  
11 tendency of the calculated betas for small companies to understate the risk associated  
12 with those companies.<sup>94</sup> GCI states that in using a beta of 2.73 percent, ACS-AN  
13 already overcompensated for any incremental risk associated with ACS-AN's small  
14 size.<sup>95</sup> GCI states that if ACS-AN had applied the size premium adjustment to a CAPM  
15 using the ACS-AN specific beta of 0.6 reporting in Value Line, there would be some  
16 plausibility to the assertion that the 0.6 beta understates ACS-AN's risk.<sup>96</sup> GCI also  
17 questions whether a size premium still exists as a valid concept.<sup>97</sup> Finally, GCI argues

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20 <sup>91</sup>Ibbotson divides the equity returns of his study companies into ten deciles and  
calculates a portion of return that is specifically related to size.

21 <sup>92</sup>T-3 (DCB), Appendix DCB-2 at 11.

22 <sup>93</sup>T-44 (TLM) at 41.

23 <sup>94</sup>*Id.* at 42.

24 <sup>95</sup>*Id.*

25 <sup>96</sup>*Id.*

26 <sup>97</sup>*Id.* at 43.

1 that Ibbotson Associates acknowledges that large cap stocks have outperformed small  
2 cap stocks over six of the last ten years.<sup>98</sup>

3 The essential point of a size premium adjustment is, as GCI notes, to  
4 correct an acknowledged flaw in the application of beta to smaller firms. In compiling its  
5 calculated beta, GCI selected six companies it stated were comparable to ACS-AN.  
6 ACS-AN witness Meade argues that four out of six of GCI's comparable companies are  
7 substantially larger than ACS-AN, as shown below.<sup>99</sup> Meade further illustrates the size  
8 difference by stating that one of GCI's comparable companies, AllTel, serves  
9 approximately six times as many lines as exist throughout all of Alaska.<sup>100</sup> ACS has  
10 240,000 access lines statewide.<sup>101</sup>

Comparable Company	Access Lines
AllTel	3,200,000
Cincinnati Bell	1,012,000
CenturyTel	2,400,000
Citizens Communications	2,444,400

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19 <sup>98</sup> *Id.*

20 <sup>99</sup> T-7 (TRM) at 8.

21 <sup>100</sup> *Id.*

22 <sup>101</sup> We examine the total access lines of the four ACS companies in this analysis  
23 because it is the combined companies that seek financing in the markets. *Annual*  
24 *Report of ACS Alaska, Inc. to the Regulatory Commission of Alaska*, Form M Schedule  
25 *S-3*, filed May 28, 2004; *Annual Report of ACS of Anchorage, Inc. to the Regulatory*  
26 *Commission of Alaska*, Form M Schedule S-3, filed May 28, 2004; *Annual Report of*  
*ACS of Fairbanks, Inc. to the Regulatory Commission of Alaska*, Form M Schedule S-3,  
filed May 28, 2004; *Annual Report of ACS of the Northland, Inc. to the Regulatory*  
*Commission of Alaska*, Form M Schedule S-3, filed May 28, 2004.

1 We find that ACS-AN is the type of smaller firm for which the size premium  
2 adjustment was developed.

3 GCI argues that ACS-AN erred in applying the size premium adjustment to  
4 an overstated beta of 2.73 percent. We selected the 1.133 percent beta calculation  
5 offered by GCI for the CAPM analysis. In arguing its case, GCI states that it would have  
6 been plausible to apply a size premium adjustment to the CAPM if ACS-AN had offered  
7 the use of its own Value Line beta of 0.6 percent.

8 We find that using a 1.133 percent beta as opposed to ACS-AN's Value  
9 Line beta of 0.6 percent does not address the difference in risk for size. The FCC  
10 selected the 1.0 beta developed by Verizon which was based on a S&P 500 proxy  
11 group of companies.<sup>102</sup> The FCC compared it to the betas of IXCs AT&T and  
12 WorldCOM<sup>103</sup> and concluded that a beta of 1.0 appears to represent a reasonable  
13 estimate of the risk faced by a company such as Verizon in a market with facilities-  
14 based competition.<sup>104</sup> The beta of 1.0 to which GCI favorably compares its 1.133 beta  
15 is appropriate for an S&P 500 company, multinational IXCs, and an ILEC the size of  
16 Verizon. ACS-AN is significantly smaller and the size premium adjustment is thus  
17 warranted in the calculation of its CAPM. We find that a size premium adjustment of  
18 3.53 percent an appropriate adjustment to the CAPM.

### 19 3. Materials Database

20 The parties proposed prices for the materials required to build the  
21 Anchorage network. In the model, the materials database spreadsheet contains many  
22 unit price inputs. The parties' support for these inputs is contained in their testimony  
23

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24 <sup>102</sup> *Verizon Virginia*, ¶ 90.

25 <sup>103</sup> *Id.* at ¶ 91.

26 <sup>104</sup> *Id.*

1 and attached workpapers. We reviewed this record, compiled the parties' positions and  
2 selected the inputs shown in Appendix C (ACS 7.2 GCI Version w RCA  
3 revisions.xls.).<sup>105</sup> In some cases we adopted the input suggested by a party; in other  
4 cases we adjusted the parties' proposals to determine input prices. Each Materials  
5 Database input or group of inputs is discussed below.

6 a) Cable

7 The cable unit price is the cost per installed foot of cable. Two gauges of  
8 copper cable are used in ACS v7.2-G: 24 gauge and 26 gauge. Cable also comes in a  
9 variety of pair sizes (e.g., 25, 50, 50, 100, and 200). Because the installation costs vary  
10 depending on whether the cable is used for aerial, underground and buried plant, there  
11 is a set of prices for each type of use. The primary cost factors that determine the final  
12 unit prices include raw material price, splice rate, engineering charge, handling charge,  
13 percentage of straight versus bridge splice, and metallic splice case.

14 Both parties generally started with the same raw material cable price. We  
15 find that GCI's splice rates, based upon an average splice rate of 300 splices per hour,  
16 are not supported by the record. Under cross examination,<sup>106</sup> Fassett acknowledged  
17 that GCI's maximum splice rate exceeded even the highest splice rate reported in his  
18 contractor survey which varied between 100 and 250 per hour for a straight splice and  
19 between 65 and 175 for a branch splice.<sup>107</sup> We adopt ACS-AN's splice rates.

20 ACS-AN proposed a 10 percent surcharge on investment to cover the cost  
21 of engineering expense. ACS-AN witness Cinelli testified that engineering fees are  
22 most often expressed as a percentage of construction cost, generally between 7  
23

24 <sup>105</sup>Appendix C, MaterialDB worksheet.

25 <sup>106</sup>Tr. 1109-1115.

26 <sup>107</sup>T-16 (SDC), SDC-6.

1 percent and 15 percent. He referenced PSMJ Resources, Inc's annual  
2 *Architectural/Engineering Fees and Pricing Survey*.<sup>108</sup> GCI argued that a percentage-  
3 based charge would not accurately capture engineering costs because "[i]n today's  
4 competitive marketplace, ILECs and other service providers competitively bid  
5 engineering work either on a unit basis or lump sum contract basis."<sup>109</sup> GCI offered no  
6 data to support its position. Based on this record, we find that it is reasonable to include  
7 a 10 percent surcharge to cover the cost of engineering expense.

8 ACS-AN proposed a flat 13.5 percent handling rate but did not justify this  
9 proposal in its direct testimony. In his opposition testimony, ACS-AN witness Dassow  
10 critiques GCI witness Fassett's proposed 5 percent handling fee, noting that Fassett  
11 does not account for start-up costs or incorrect forecasting. Dassow states that he has  
12 discussed a just-in-time (JIT) agreement with a representative of Graybar but does not  
13 indicate what percentage Graybar charges for JIT.<sup>110</sup> Dassow does not attempt to  
14 further justify ACS-AN's 13.5 percent handling charge. However, GCI witness Fassett  
15 states that a JIT agreement between one vendor (either Anixter or Graybar) and an  
16 unnamed Alaska telecommunications utility results in a material cost increase of 2  
17 percent to 2.5 percent,<sup>111</sup> an amount that is not disputed by Dassow. Further, Fassett  
18 recommends increasing this percentage in the model to 5 percent.<sup>112</sup> We find based on  
19 this record that a 5 percent handling charge is reasonable.

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21 <sup>108</sup>T-15 (SDC), Appendix E to Prefiled Opposition Testimony of Steven D. Cinelli  
22 at 7-8.

23 <sup>109</sup>T-52 (DRF) 31.

24 <sup>110</sup>T-13 (TCD) 8.

25 <sup>111</sup>T-52 (DRF) 34.

26 <sup>112</sup>T-53 (DRF) 4.



1 ACS-AN assumes 58 percent of splices will be straight and 42 percent will  
2 be bridged.<sup>113</sup> This proposal is based upon existing percentages in its embedded  
3 network.<sup>114</sup> We are directed to determine the price of a forward-looking network.<sup>115</sup> We  
4 find that GCI's assumed ratio of 80 percent straight and 20 percent bridged is more  
5 consistent with a forward-looking network.

6 We adopt ACS-AN's metallic splice case numbers because GCI provides  
7 no support for its numbers.

8 Our decisions on cost of fiber cable are consistent with our decision on  
9 copper cable. Our calculations are shown in Appendix D (RCA Modifications to Cable  
10 Spreadsheet.xls).

11 b) Drop and SAI Terminals

12 We modified the ACS-AN drop terminal calculations and ACS-AN Service  
13 Area Interface (SAI) terminal calculations consistent with the changes we made to  
14 engineering, handling, and splicing in Appendix E (Copy of SAI.xls) and Appendix F  
15 (Copy of Drop Terminals.xls).

16 c) Poles

17 ACS-AN and GCI used essentially the same method for calculating pole  
18 costs. The major difference was that ACS-AN based its labor hours for pole placement  
19 on an ATU engineering "Broadgauge" estimate.<sup>116</sup> GCI, relying on its expert's opinion,  
20 assumed considerably fewer hours of labor time per pole than ACS-AN. ACS-AN's

21 \_\_\_\_\_  
22 <sup>113</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Cable.xls, Br.  
vs Str. Spl Ratio worksheet, filed by ACS-AN on August 29, 2003.

23 <sup>114</sup>*Id.*

24 <sup>115</sup>47 U.S.C. § 252(d).

25 <sup>116</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Poles.xls,  
Installation worksheet, filed by ACS-AN on August 29, 2003.

1 proposed rate was more consistent with the range of quotes included in GCI's  
2 contractor survey. We note that GCI's estimate for pole placement costs (\$315.77)<sup>117</sup>  
3 was below the lowest contractor estimate from GCI's survey (\$495).<sup>118</sup> We adopt  
4 ACS-AN's pole input of \$1,041.91 because it is better supported by this record.

5 d) Road Prism Construction

6 The parties included different costs in their road prism construction (RPC)  
7 input. ACS-AN included all of the costs of construction within the road prism except  
8 trenching and backfill.<sup>119</sup> GCI included only permitting costs in their RPC input.

9 They also defined the road prism differently. GCI included both the area  
10 of road pavement and the area on either side of the road pavement above the actual  
11 road bed sloping away from the pavement at an angle in its definition of road prism. As  
12 a result, for GCI, RPC construction included trenching in dirt or grass if it lay above the  
13 road bed (that is, within the road prism as defined by GCI). ACS-AN, on the other hand,  
14 limited its definition of RPC to construction in asphalt or concrete. According to  
15 ACS-AN witness Cinelli, trenching in dirt is not RPC even if the construction lies directly  
16 above the sloping portion of the road bed.

17 We find GCI's definition more reasonable because it is consistent with the  
18 Municipality of Anchorage's (MOA) Right of Way Department's definition of road prism.  
19 The MOA assesses various charges for road construction permits based upon whether  
20 they are in the road prism as it has been defined to include the road surface and the  
21 area sloping downward on either side. We adopt GCI's estimate of the RPC input (\$.84  
22 per foot) which is limited to permitting costs rather than ACS-AN's proposed input of  
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24 <sup>117</sup>DRF-11.

25 <sup>118</sup>SDC-6.

26 <sup>119</sup>ACS-AN included trenching and backfill costs in their feeder trenching input.

1 \$86.09 per foot which includes both permitting and other construction costs. We include  
2 all non-permit construction costs (i.e. removal and replacement of roadbed, as well as  
3 trenching and backfill) in the feeder excavation input.

4 e) Feeder Trenching

5 Feeder plant begins at the wire center and ends at either a digital loop  
6 carrier or service area interface.<sup>120</sup> ACS-AN explained the design criteria employed in  
7 the ACS-AN design, including criteria for placing of Service Area Interfaces (SAIs) and  
8 the interaction between distribution and feeder design.<sup>121</sup> ACS-AN did not present a  
9 witness to discuss the design of the existing network. ACS-AN used a combination of  
10 outside engineering design consultants and in-house engineers to create a new  
11 design.<sup>122</sup> ACS-AN witness Cinelli, a registered professional engineer, then reviewed  
12 and verified that the ACS-AN v7.2 model determined forward-looking costs. He focused  
13 on the feeder design portion of the network and inspected parts of the network.<sup>123</sup> His  
14 analysis reflects assumptions for trench cross sections and placement in rights of way.  
15 ACS-AN argued that it used best design practices, integrated the design between  
16 distribution and feeder and used fiber where it lessened costs.<sup>124</sup>

17 ACS-AN included permitting costs, saw cutting pavement, leveling course,  
18 asphalt pavement, painting, traffic control and density testing in its RPC costs.  
19 Trenching and backfilling all areas under the leveling course are a separate cost  
20  
21

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22 <sup>120</sup>T-14 (SDC) 6.

23 <sup>121</sup>T-17 (GLS) 5, Tr. 431 (GLS).

24 <sup>122</sup>Tr. 390 (SDC).

25 <sup>123</sup>T-14 (SDC) 5, 17.

26 <sup>124</sup>Tr. 431-32 (GLS); Tr. 439 (GLS).

1 element.<sup>125</sup> GCI included only permitting costs in its RPC analysis. GCI accounts for  
2 the actual removal and replacement of pavement and sub-grade above the trench as a  
3 part of the feeder trenching cost element.<sup>126</sup>

4 GCI witnesses reviewed all of the feeder routes in the field and created a  
5 GCI-sponsored feeder plant design tailored to demand in each CBG.<sup>127</sup> GCI criticized  
6 the ACS design and proposed some redesign; rerouting feeders at several locations.<sup>128</sup>  
7 GCI assembled an extensive and informative record of surface conditions and routing  
8 possibilities.

9 Neither party's documentation shows the physical limit of the rights of way,  
10 nor any information on existing buried utilities along the route.<sup>129</sup> GCI witness Fassett  
11 stated that he conferred with the Municipality's Right of Way Department to determine  
12 where the feeder plant he designed could be built.<sup>130</sup>

13 ACS-AN asserted that 89.7 percent<sup>131</sup> of the feeder construction would be  
14 in paved roadway areas arguing that there are practical constraints that limit  
15 construction outside of the road prism. Cinelli testified that there are often existing  
16 buried utilities within the unpaved areas that would conflict with feeder installation and

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17  
18 <sup>125</sup>T-15 (SDC) Appendix C to Prefiled Opposition Testimony of Steven D. Cinelli  
at 2.

19 <sup>126</sup>T-52 (DRF) 38; DRF-11 p. 30 "Feeder Trench/Excav Cost Analysis" table.

20 <sup>127</sup>T-52 (DRF) 15.

21 <sup>128</sup>T-52 (DRF) 14-15, 24, 26.

22 <sup>129</sup>Tr. 424 (GLS). ACS-AN witness Schmid testified:

23 In a road prism you've got a lot more to contend with. And, you know, I -- I  
24 don't see very many grassy areas in a road prism. You usually have other  
utilities. You've got storm drain, gas, power, cable TV, they're all strung out  
all over the place. It makes it difficult.

25 <sup>130</sup>Tr. 1223-24 (DRF).

26 <sup>131</sup>T-52 (DRF) 15; DRF-6, ACS/GCI Feeder Route Summary.

1 short segments out of the road prism would result in additional costs,<sup>132</sup> however his  
2 documentation did not show the relationship of the existing utilities to his proposed  
3 design. ACS-AN proposed unit costs for different trench conditions, with RPC costs at  
4 \$86.09/linear feet (LF) and Trench and backfill at \$43.34/LF.<sup>133</sup> GCI proposed that 53  
5 percent of the feeder construction be inside of road prism areas.<sup>134</sup> This proposal was  
6 based on route analyses with photos of the proposed alignment, and a table of  
7 assumed routing conditions.<sup>135</sup> GCI proposed a cost of \$21.68 for placement of feeder  
8 plant in roadway prism and \$11.18 outside of roadways. GCI then developed a  
9 weighted cost of \$17.89 for all feeder route construction for  
10 excavation/trenching/restoration.<sup>136</sup>

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17 <sup>132</sup>T-14 (SDC) 9-10.

18 <sup>133</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Civil  
19 Inputs.xls, Road Prism Construction worksheet and Trench and Backfill worksheet,  
20 respectively, filed by ACS-AN on August 29, 2003.

21 <sup>134</sup>T-52 (DRF) 38. GCI employed a definition for road prism used by the  
22 Municipality of Anchorage. This definition considers the distance from the traffic area  
23 and the depths from the roadbed as determining factors of whether a buried utility is in  
24 or out of the prism. T-52 (DRF) 16. ACS-AN defines roadway prism construction as  
25 feeder plant under paved surface. T-15 (SDC) Appendix C to Prefiled Opposition  
26 Testimony of Steven D. Cinelli at 2.

<sup>135</sup>DRF-6.

<sup>136</sup>T-52 (DRF) 38-39; DRF-11 p. 31, "Blended cost per foot as input to model"  
table.

1 ACS-AN proposed a rate of \$43.34 for all feeder excavation.<sup>137</sup> However,  
2 if we add back ACS-AN's estimate of RPC costs, then ACS-AN's cost input would be  
3 \$120.00.<sup>138</sup>

4 GCI's blended feeder construction rate of \$17.89 is based on only 53  
5 percent of feeder routes involving RPC. GCI also assumes that not all trenching in the  
6 road prism area requires trenching in asphalt or concrete. GCI's approach assumes  
7 that there are a variety of construction techniques that can be used in the road prism  
8 and that each technique has its own unique cost characteristics. Based upon a detailed  
9 visual inspection of each feeder route, GCI identified the type and percentage of each  
10 construction method that will be used in the 22 sample CBGs used in the ACS v7.2-G  
11 model.<sup>139</sup> GCI also proposed the use of boring as a construction method for placing  
12 conduit underground. Testimony in support of boring costs varied widely and appears  
13 to be a function of number and type of conduit, depth of bore, and type of soil  
14 conditions. In theory at least, it should be less than trenching in pavement since it  
15 avoids the removal and replacement of the pavement. However, we generally found  
16 estimates of boring unreliable. We will assume therefore that boring costs the same as  
17 trenching.

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18  
19  
20 <sup>137</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Civil  
21 Inputs.xls, Road Prism Construction worksheet and Trench and Backfill worksheet,  
22 respectively, filed by ACS-AN on August 29, 2003. This amount does not include ACS-  
23 AN's additional proposed costs for RPC of \$86.09. Because we include only permitting  
24 charges in the RPC input, we consider ACS-AN's actual RPC construction costs in the  
25 feeder excavation input.

26 <sup>138</sup>See Appendix G, modified Civil Inputs 6-10-04.xls, for calculation (Road Prism  
Construction worksheet, cell G21). The revised calculation does not include permit  
fees.

<sup>139</sup>DRF-11, pp. 30-31.

1           One of the biggest differences between GCI's estimates and ACS-AN's is  
2 the width of trenching in pavement (asphalt or concrete). GCI proposed trenches that  
3 are 2 feet wide.<sup>140</sup> ACS-AN proposed trenches that are 13 feet wide.<sup>141</sup> We do not  
4 believe that trenches are always 13 feet wide or always 2 feet wide. Neither party  
5 provided completely reliable or convincing testimony on this issue; but rather relied  
6 primarily on the opinions of their experts. We believe that the most appropriate solution  
7 is to rely on GCI's analysis of the percentage of the various road and terrain conditions  
8 within the road prism and ACS-AN's basic engineering design for feeder trench. GCI's  
9 analysis shows that within the road prism 47 percent of construction was in dirt and  
10 grass. The rest, 53 percent, was in various types of asphalt and concrete.<sup>142</sup> We  
11 therefore assume that 53 percent of road prism construction had wider trenching  
12 requirements (i.e., 12.67 foot wide pavement cuts and 10.67 foot wide trenches, along  
13 the lines described by ACS-AN, and that 47 percent of road prism construction had  
14 narrow trenching requirements (i.e., 4 foot wide pavement cuts and 2 foot wide trenches  
15 along the lines described by GCI. Based upon our calculations we adopt a composite  
16 rate for feeder trenching within the road prism area of \$84.06.<sup>143</sup>

17           For areas outside the road prism, we find that a combination of the parties'  
18 proposals also produces the most reasonable result. We adopt ACS-AN's contract rate  
19 of \$6.07 for trench and backfill, and as noted earlier, adopt the composite feeder  
20

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21           <sup>140</sup>Tr. 1119 (DRF); DRF-14.

22           <sup>141</sup>T-14 (SDC) 11. Although Cinelli and others refer to trenches 13 feet wide in  
23 testimony, in his calculation Cinelli assumes a 12.57 foot pavement cut and a 10.57 foot  
24 trench width.

24           <sup>142</sup>Appendix C, MaterialDB Adjments worksheet, column J.

25           <sup>143</sup>Our calculations are shown in Appendix C, MaterialDB Adjments worksheet,  
26 as a modification of GCI's feeder trenching calculations, cell I11.

1 trenching rate of \$84.06 per foot as a proxy for boring costs. We also adopt GCI's  
2 assumptions that non-RPC construction is 60 percent trench and backfill and 40 percent  
3 bore.<sup>144</sup> Our calculations yield a composite rate of \$37.65 per foot for construction  
4 outside the road prism.

Feeder Trenching	
Road Prism Cost per foot	Non-Road Prism Cost per foot
\$84.06	\$37.65

5  
6  
7  
8 The ACS v7.2-G model does not include separate inputs for these road  
9 prism and non-road prism construction costs. Therefore, to determine the final  
10 composite rate for the feeder trenching input we must first establish what percentage of  
11 feeder constituted road prism construction (i.e., at \$84.06 per foot) and what percentage  
12 of feeder constituted non-road prism construction (i.e., at \$37.65 per foot). ACS-AN  
13 argued that 89.7 percent of the feeder would be constructed within the road prism. GCI  
14 argued that only 53 percent of the feeder system would be constructed within the road  
15 prism. In part this difference results from their varying definitions of road prism. We find  
16 that 53 percent of the feeder will be placed within the road prism. We are persuaded  
17 that GCI's estimate is more accurate because their experts conducted a visual field  
18 inspection of each feeder route. ACS-AN witness Cinelli's estimate was based on a  
19 review of plans.<sup>145</sup> We find that the visual field inspection is more likely to be accurate.

20 Based upon these calculations we adopt a feeder trenching input cost of  
21 \$63.50 per foot.<sup>146</sup>

22  
23  
24 <sup>144</sup>DRF-12.

<sup>145</sup>T-14 (SDC)14.

<sup>146</sup>Appendix C, MaterialDB Adjments worksheet.



1                    f) Road Crossing

2                    ACS-AN has proposed \$112.71 per foot for road crossings.<sup>147</sup> This price  
3 includes ACS-AN's estimate of permitting fees (\$300) but does not include ACS-AN's  
4 estimate of trenching and backfill (\$43.34). If ACS-AN's permit costs are deducted and  
5 trenching and backfill is added, the ACS-AN price becomes \$133.29.<sup>148</sup> GCI has  
6 proposed a rate of \$49.06.<sup>149</sup> Consistent with our feeder trenching decision, we  
7 adjusted ACS-AN's road crossing calculation to use a 6.6 foot wide trench rather than  
8 13 foot wide trench. We also find that the record does not support ACS-AN's assertion  
9 that each road crossing has two sets of sidewalk with curb and gutter. We cannot  
10 accurately determine from this record the number of road crossings with curb, gutter  
11 and sidewalk. Therefore, we find that assuming that each road crossing has one  
12 sidewalk with curb and gutter is reasonable and we adopt the rate of \$105.56.<sup>150</sup>

13                    g) Driveway Crossing

14                    For driveway crossings, we perform a similar analysis and make a similar  
15 adjustment. ACS-AN proposed \$60.20 per foot for driveway crossing.<sup>151</sup> However,  
16 ACS-AN's' full price, when adjusted for our decision to include only permit costs in the  
17 RPC input, is \$103.53.<sup>152</sup> GCI has proposed a rate of \$27.04.<sup>153</sup> We adopt a rate of

19 \_\_\_\_\_  
20 <sup>147</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Civil  
Inputs.xls, Road Crossing worksheet, filed by ACS-AN on August 29, 2003.

21 <sup>148</sup>Appendix G, Adj'd Road Crossing worksheet, cell E33.

22 <sup>149</sup>DRF-11 p. 27, "40 Foot Road Crossing – Open Cut" table.

23 <sup>150</sup>Appendix G, Modified Road Crossing at 8.6 worksheet, cell G29.

24 <sup>151</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Civil  
Inputs.xls, Driveway Crossing - Paved worksheet, filed by ACS-AN on August 29, 2003.

25 <sup>152</sup>Appendix G, Adj Driveway Crossing - Paved worksheet, cell G19.

26 <sup>153</sup>DRF-11 p. 28; "12 FT Asphalt Driveway – Cut" table.

1 \$70.34.<sup>154</sup> Our rate is based upon a revision of ACS-AN's driveway crossing calculation  
2 that assumes a 6.6 foot wide trench rather than a 13 foot wide trench.

3 h) Manholes

4 ACS-AN proposed an installed rate of \$31,004.45<sup>155</sup> for manholes and  
5 GCI proposed a rate of \$7,490.<sup>156</sup> ACS-AN included a rate of \$11,952 in a previous  
6 version of ACS v7.2.<sup>157</sup> The ACS-AN rate of \$31,004.45 is not close to any baseline  
7 costs (i.e., proxy models, contractor surveys, or even its own previous proposals). We  
8 find that GCI understates realistic excavation, placement and restoration costs. We  
9 believe that the rate in the earlier version of ACS' model is reasonably within the range  
10 of the FCC proxy model default and GCI contractor survey costs as reported by  
11 ACS-AN witness Fassett.<sup>158</sup>

12 i) Vaults

13 ACS-AN proposed an installed rate of \$10,377.68 for vaults.<sup>159</sup> GCI  
14 proposed a rate of \$4,549.<sup>160</sup> We adopt the rate of \$5,317.58, which ACS-AN included  
15 in a previous version of ACS v7.2.<sup>161</sup> The ACS-AN rate is not close to any baseline  
16

17  
18 <sup>154</sup>Appendix G, Mod. Drv-way Crossing-Pave 8.6 worksheet, cell G18.

19 <sup>155</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Civil  
20 Inputs.xls, Manhole worksheet, filed by ACS-AN on August 29, 2003.

21 <sup>156</sup>DRF-11 p. 32; "Total Installed MH Investment" table.

22 <sup>157</sup>*Id.*

23 <sup>158</sup>DRF-11 p. 32; "Manhole Material Cost" and "Total Installed MH Investment"  
24 tables.

25 <sup>159</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Civil  
26 Inputs.xls, Vaults worksheet, filed by ACS-AN on August 29, 2003.

<sup>160</sup>DRF-11 p. 33; "Total Install Vault Investment" table.

<sup>161</sup>*Id.*

1 costs. We believe that a rate of \$5,318 is reasonably within the range of GCI contractor  
2 survey costs as reported by GCI witness Fassett.<sup>162</sup>

3 j) Handholes

4 GCI proposed rate of \$723.24 for handholes is a blend of costs for  
5 different soil types. GCI uses the lowest of three contractor survey estimates in  
6 developing this rate.<sup>163</sup> ACS-AN's proposed a rate of \$1,120.05. Although ACS-AN did  
7 not provide cost support, we believe that ACS-AN's proposal is more consistent with the  
8 mid-range of installation costs in GCI's contractor survey. We adopt ACS-AN's  
9 proposed rate of \$1,120.05.

10 k) Drop Feet

11 The parties also included prices for drop feet. This task involves running a  
12 79-foot line (on average) from a pole or terminal to a customer's network interface  
13 device (NID). ACS-AN has proposed a rate of \$3.90 per foot.<sup>164</sup> GCI has proposed a  
14 rate of \$.80 per foot.<sup>165</sup> ACS-AN's rate is equivalent to about four or five labor hours.  
15 GCI's calculation is based upon one-half hour of labor.<sup>166</sup> We believe that ACS-AN's  
16 implicit labor rate is unreasonably excessive for this task. We believe that GCI's  
17 estimate is somewhat optimistic but closer to reality. We adopt a rate of \$1.60 which is  
18 approximately twice the labor time that GCI has used.

19  
20  
21  
22 <sup>162</sup>DRF-11; p. 33. .

23 <sup>163</sup>DRF-11 p. 33 "Handhole Material Cost" table.

24 <sup>164</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Drop.xls, filed  
by ACS-AN on August 29, 2003.

25 <sup>165</sup>DRF-11 p. 55; "GCI Drop Calculations for 79 foot drop" table.

26 <sup>166</sup>DRF-11 p. 54 , "Aerial Drop Installation Labor Cost table.

1                    l) Underground Conduit

2                    GCI has proposed a rate of \$1.52 per foot for 4-inch, installed  
3 underground conduit.<sup>167</sup> This appears to be based upon the low-end vendor material  
4 survey price.<sup>168</sup> The FCC default rate is \$.72.<sup>169</sup> ACS-AN's proposed rate of \$5.26 is  
5 based upon its Piggyback contract rate (\$3.92) with additional markup for engineering  
6 and material cost.<sup>170</sup> We find GCI's survey results less persuasive than ACS-AN's  
7 existing contract rate, because GCI relied on the low-end estimate rather than the mid-  
8 range. However, ACS-AN did not provide sufficient support for us to determine whether  
9 the Piggyback contract rate already included material and engineering cost. We  
10 therefore adopt the Piggyback contract rate of \$3.92 without ACS-AN's additional  
11 markup.

12                    m) Other Inputs

13                    There were several other material database inputs. We use ACS-AN's  
14 proposed rates for the following inputs: NIDS (\$73.68),<sup>171</sup> Ground Rods (\$56.67),<sup>172</sup>  
15  
16  
17

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18                    <sup>167</sup>Electronic exhibit RAM-9, ACS 7.2-G and HAI-SWT Model Runs/Anc  
19 expense/GCIexpense.xls, MaterialDatabase worksheet, cell C322.

20                    <sup>168</sup>DRF-11 p. 37; "Installed Conduit & Innerduct" table; SDC-6 p. 2; "Install 4"  
21 conduit including stabilization and gluing" rows 16-18.

22                    <sup>169</sup>DRF-11 p. 35, "Conduit Placement and Stabilization Cost" table.

23                    <sup>170</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Ducts.xls and  
24 \_1\_UNE/Cost Inputs/Contracts/Piggyback.xls, filed by ACS-AN on August 29, 2003.

25                    <sup>171</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/NID.xls, filed  
26 by ACS-AN on August 29, 2003.

<sup>172</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Ground  
Rods.xls, filed by ACS-AN on August 29, 2003.

1 Aerial – Guys and Anchors (\$860.93),<sup>173</sup> DLC Line Cards (\$189.54).<sup>174</sup> In each case we  
2 believe that the price difference is not significant or the input is not a major cost driver in  
3 the model. We also adopt these ACS-AN rates because of the general difficulty in  
4 verifying GCI's calculations, of which these four inputs are typical examples. For most  
5 ACS-AN inputs there is an associated spreadsheet that documented ACS-AN's  
6 calculations and included references to sources. In contrast, GCI provided a single  
7 paper attachment for the vast majority of the Material Database cost support (DRF-  
8 11).<sup>175</sup> GCI did a better job in its direct testimony of explaining the processes it had  
9 used, but verifying and reviewing its calculations and workpapers were cumbersome.

10 GCI allocates 35 percent of distribution trenching costs to other utilities;<sup>176</sup>  
11 ACS-AN assigns 50.9 percent.<sup>177</sup> Neither party provided support for these percentages.  
12 We adopt the lower number 35 percent. ACS-AN and GCI both proposed 65 percent of  
13 aerial utilities would be shared. We adopt this factor.

14 GCI proposes that 35 percent of the costs of constructing the feeder  
15 network will be shared with other utilities. ACS-AN proposes that none of the costs  
16 would be shared. For the purposes of this loop model, we found that trenches should  
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18 <sup>173</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Guys and  
19 Anchors.xls, filed by ACS-AN on August 29, 2003.

20 <sup>174</sup>Cost Models and Support Documentation, \_1\_UNE/Cost Inputs/Digital Loop  
21 Carriers.xls, DLC Summary worksheet, filed by ACS-AN on August 29, 2003.

22 <sup>175</sup>Although DRF-11 is approximately 70 pages long, it contains many pages with  
23 multiple tables and neither an index or page numbers. If provided, documentation to  
24 source numbers was often confusing. In some cases GCI calculations were  
25 understandable only because we were able to trace the calculations back to actual  
26 ACS-AN spreadsheets that GCI had modified

<sup>176</sup>Electronic exhibit RAM-9, ACS 7.2-G and HAI-SWT Model Runs/Anc  
expense/GClexpense.xls, MaterialDatabase worksheet.

<sup>177</sup>*Id.*

1 be designed 6.6 feet wide at the top and 42 inches deep. They are therefore two feet  
2 wide at the bottom, leaving little room for the placement of other equipment. We  
3 therefore assume that none of the construction costs of this network will be shared with  
4 other utilities.

5 4. Loop Inputs – Maintenance Factors

6 The cost calculators in the ACS v7.2-G model use expense factors (also  
7 know as maintenance factors) to determine the expenses associated with various  
8 categories of plant investment. For example, copper underground cable is one of  
9 thirteen plant investment categories that comprise feeder plant. In the model a  
10 maintenance factor for copper underground cable is multiplied by the investment for this  
11 account to determine the annual expense associated with copper underground cable  
12 used in the feeder portion of the network.

13 The first step in determining maintenance factor is to develop a ratio of  
14 current expense to investment for each category of plant.<sup>178</sup> The parties disagreed  
15 about what financial information should be used to make the calculation. ACS-AN used  
16 its own data. GCI proposed using “best in class” data. That is, GCI proposed to  
17 calculate the E/I ratios for all LECs (for which this data is available) and use the very  
18 lowest (i.e. best) ratios for each category in its model. GCI’s rationale was that,  
19 because we are modeling a hypothetical LEC using efficient forward-looking technology,  
20 it is appropriate to only use ratios from the upper tier (i.e., top 20 percent) companies.

21 We do not adopt GCI’s best in class analysis because we find that it is  
22 flawed in two respects. First the data GCI relied on is available only for companies that

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24 <sup>178</sup>In addition, based upon FCC precedent, the parties did not dispute that  
25 investment should be adjusted from (historical) booked values to current values using  
26 replacement costs. GCI adopted ACS-AN’s calculation of replacement cost for the  
development of ACS-AN specific E/I ratios.

1 report ARMIS data to the FCC; this group includes RBOCs and other LECs significantly  
2 larger than ACS-AN in most respects (lines, revenues, etc.). We do not find that these  
3 LECs represent ACS-AN or its cost structure. Second, GCI did not determine the most  
4 efficient LECs overall and use the E/I ratios from just those LECs. Instead, GCI  
5 selectively chose only the top E/I ratios from all LECs. As a result we are left comparing  
6 ACS-AN to a hypothetical, super efficient, composite LEC, a perfected LEC built with E/I  
7 ratios taken only from the cream of the crop. We reject this approach because GCI  
8 failed to explain why selective benchmarking is reasonable.

9 GCI also performed an alternative E/I ratio that was similar to ACS-AN's  
10 analysis. ACS-AN's and GCI's calculation of Anchorage specific E/I ratios differed in  
11 four respects. First, GCI trended 2002 data in order to estimate 2003 E/I ratios. We do  
12 not accept this change. We are not convinced that GCI's use of an compound annual  
13 growth rate is likely to produce results that accurately estimate 2003 expense ratios or  
14 that it is necessarily a good proxy for estimating the efficiency of a forward-looking  
15 company. Second, GCI adjusted ACS-AN pole expense to remove pole rental costs.  
16 This adjustment is reasonable and we adopt it. Because ACS-AN leases many of its  
17 poles, inclusion of rental costs overstates this maintenance factor. Third, GCI  
18 developed separate factors for buried fiber cable and buried metallic cable. However,  
19 ACS-AN's Form M account data does not separate out buried cable in this way. We do  
20 not adopt this modification because it is not clear to us how the separate ratios were  
21 derived. Fourth, ACS-AN removed non-recurring cost (NRC) expense from expense  
22 categories before computing E/I ratios. We approve of this adjustment. Because NRCs  
23 are calculated separately (NRC Model) it is appropriate to exclude them here.

24 Therefore, we adopt all of ACS-AN's maintenance factors except for  
25 Poles. In the case of Poles, we adopt GCI's calculation of Anchorage specific Pole  
26

1 maintenance factor but back out GCI's trending analysis (i.e., we back out GCI's  
2 application of a compound annual growth rate to 2002 data).

3 5. Loop Inputs – Common Support

4 GCI and ACS-AN take two very different approaches to calculating  
5 common support. ACS-AN does not start with its own costs but rather with an average  
6 common support per line computed by the FCC in its Universal Service proceeding for  
7 non-rural LECs.<sup>179</sup> In doing so it relies on data and averages from many of the same  
8 companies that report ARMIS data to the FCC, a data source similar to that which we  
9 found inappropriate to use in computing maintenance factors.

10 GCI's approach was to conduct a regression analysis to see what  
11 categories of cost most closely correlate with the two components of Common Cost:  
12 Network Operations and Corporate Operations. GCI found that Network operations are  
13 highly correlated with total plant in service and that Corporate Operations is correlated  
14 with total operating revenues minus corporate operations expense. GCI then calculated

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17 <sup>179</sup>ACS Common Support Calculation:

- 18 • Starts with \$7.32/line common support computed by FCC in Universal Service  
19 Docket for non-rural LECs;
- 20 • Subtracts estimate of retail costs to get \$3.19 per line;
- 21 • Multiplies \$3.19 times 262,115 voice grade equivalent\_lines to get \$10,020,100  
22 common cost;
- 23 • Adds taxes for new total: \$10,427,720;
- 24 • Applies loop factor of 65.47 percent to get \$6,826,643;
- 25 • Divides by 188,355 physical lines to get \$3.02 common support per physical  
26 loop.

See Cost Models and Support Documentation, \_1\_UNE/ACS v7.2 UNE Model/Cost  
Calculator ACS Financial Input Defaults.xls, E-Common worksheet, filed by ACS-AN on  
August 29, 2003.



1 factors for network operations and corporate operations using both its best in class  
 2 approach and its Anchorage-specific cost approach.

3 Of the two proposals we find GCI's to be more theoretically sound  
 4 because it permits us to use Anchorage specific data to calculate common cost.  
 5 Generally, we believe that in developing model inputs it is preferable to use Anchorage  
 6 specific factors rather than national data unless we have reason to question use of the  
 7 former. We also note that while ACS-AN's common cost calculation varies with the total  
 8 number of access lines it does not otherwise vary with the level of model investment.<sup>180</sup>  
 9 This is inconsistent with the GCI regression analysis that shows that Common Support  
 10 has a direct correlation to total plant in service.

11 Consistent with our discussion of maintenance factors we do not adopt  
 12 GCI's best in class analysis but will rather use the Anchorage specific factors developed  
 13 by GCI with an adjustment to remove GCI's trending:

Common Cost Factor Description	Common Cost Factor	Source
Network Operations Expense Factor	0.0153/year	TLB-AM-11; Tab: Summary with 2003 Est; cell E8
Corporate Operations Expense Factor	10.45 percent of total cost	TLB-AM-13; Anch 2002 without CAGR; cell E3

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 20 The table below shows that despite our use of GCI's common cost  
 21 calculator, the common cost per line in our run of the ACS v7.2-G model produces a  
 22 common cost per line amount (approximately \$2.96) that is much closer to ACS-AN's  
 23 static cost per line of (\$3.02) than to GCI's version using Anchorage specific inputs

24  
 25 <sup>180</sup>Except to the extent that changes in loop investment causes a change in the  
 26 ratio of loop investment to switching investment.

1 (\$1.05). This is because the common cost calculation in ACS v7.2-G is a function of  
2 model investment, and our choice of model inputs overall has produced a level of loop  
3 investment that is significantly greater than that produced by GCI.

4 Common Support Estimate	CS/loop/month	Comment
5 GCI ACS v7.2-G (ACS-AN specific E/I factors)	\$1.05	based upon \$10M in loop investment; increases directly with model loop investment
6 ACS v7.2	\$3.02	Based upon USF proxy with various deductions for retail and non-loop costs
7 RCA ACS 7.2-G	\$2.96	

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10 6. Loop Inputs – General Support Facilities (GSF)

11 GCI's approach to developing GSF was similar the approach it took in  
12 developing common support. In this case, however, its regression analysis showed that  
13 GSF investment and expense correlated very closely with total plant in service minus  
14 general support, which GCI refers to as adjusted total plant in service. GCI also  
15 developed two sets of factors, one based upon best-in-class assumptions and one  
16 based upon ACS-AN specific expenses and investment. In both cases 2002 data is  
17 trended using a compound annual growth rate to estimate factors for 2003.

18 Unlike GCI, ACS-AN did not use model investment to determine General  
19 Support. Rather ACS-AN used embedded expense and embedded investment  
20 (adjusted to replacement cost) to determine General Support. As a result, ACS-AN's  
21 General Support costs are largely unrelated to model investment.

22 We adopt GCI's method of calculating GSF using ACS-AN specific factors  
23 rather than best-in-class. We do not accept GCI's best in class approach for the same  
24 reasons we did not accept it for maintenance factors and common support. We also  
25 modify GCI's ACS-AN specific numbers to back out GCI's compound annual growth  
26 rate adjustment used to estimate factors for 2003. Finally, we modify GCI's estimate of

1 General support associated with retail (52 percent) to a percentage consistent with our  
 2 wholesale rate discount which is based upon avoided retail cost (24.62 percent). Our  
 3 revised factors are shown in the table below:

General Support	GSF Investment / Adj. TPIS	GSF Expense / Adj. TPIS / Yr	1 - Retail percent
Furniture	0.00085	0.00034	75.38%
Office equipment	0.00005	0.00502	75.38%
General purpose computers	0.08517	0.00495	75.38%
Motor vehicles	0.01019	0.00026	100.00%
Buildings	0.10266	0.00531	75.38%
All network work equipment	0.00716	0.00008	100.00%

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13 Our GSF calculation is expressed on a per loop per month basis in the  
14 comparison table below.

GSF Estimate	GSF/loop/month	Comment
GCI ACS v7.2-G	\$0.68	based upon \$10M in loop investment; increases directly with model loop investment
ACS v7.2	\$6.11	Based upon embedded costs; does not vary with loop model investment;
RCA ACS 7.2-G	\$3.32	

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20 At \$3.32 per loop per month, our calculation is roughly midway between the GCI and  
21 ACS-AN model estimates.

22 When all of these factors are used in the model, we calculate a loop price  
23 of \$ 19.15.<sup>181</sup>

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25 <sup>181</sup>Appendix C, E-Summary worksheet, cell G19.

1 IV. Switching, Transport and Signaling

2 Both GCI and ACS-AN have submitted switching and transport models.  
3 Both are spreadsheet models that tie to their corresponding loop models. Of the two,  
4 the ACS-AN model is much more streamlined with worksheets and calculations that are  
5 relatively easy to track. Although we appreciate the relative simplicity of the ACS-AN  
6 model compared to the GCI model we believe that the ACS-AN proposal is faulty in  
7 several respects that undermine its adoption for rate setting. The first deficiency is the  
8 scarcity of direct testimony to support the model inputs and mechanics.<sup>182</sup> The second  
9 is the lack of documentation in support of ACS-AN's DMS100 switch prices.<sup>183</sup> It is  
10 unclear whether ACS-AN prices include any discount whatsoever, which we believe are  
11 generally available to telephone companies, particularly when multiple units are being  
12 purchased. Third, is the lack of reply testimony responding to specific criticism of the  
13 ACS-AN model by GCI, which included:

- 14 • No explanation or diagram of transmission equipment, making it  
15 impossible to determine fiber ring configuration;<sup>184</sup>

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22 <sup>182</sup>Little more than a page of Wilks' direct testimony is devoted to explanation of  
the ACS-AN switching model.

23 <sup>183</sup>See Cost Models and Support Documentation, \_2\_Switching and  
24 Transport.xls, Inputs worksheet and EO-Inv worksheet, filed by ACS-AN on August 29,  
2003.

25 <sup>184</sup>T-41 (RAM) 30.

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- Not possible to determine whether remote switch locations are equipped with remote switches or digital loop carriers (DLCs);<sup>185</sup>
- No explanation for multiple redundant fiber optic transmission terminals at switch locations;<sup>186</sup>
- No explanation for fiber optic transmission terminals at GCI and AT&T switch locations;<sup>187</sup>
- Switch and other equipment prices appear to be significantly in excess of FCC defaults;<sup>188</sup>
- Switch price inputs are 2.5 times higher than FCC estimates and GCI experienced costs;<sup>189</sup>
- ACS allocates 70 percent of the land, building, general and common costs of the switch to the usage based rate element;<sup>190</sup>
- Port and minute demand data is inconsistent with other data that ACS-AN has provided.<sup>191</sup> (*Id.* at 7.)

In contrast, GCI provided testimony from three different witnesses,<sup>192</sup> a technical operating manual,<sup>193</sup> extensive cost support,<sup>194</sup> and a point by point rebuttal by

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<sup>185</sup> *Id.* at 30-31. At hearing Cellupica was unable to confirm whether ACS-AN used remote switches or DLCs in its model. Tr. 511-12 (RPC).

<sup>186</sup> *Id.*

<sup>187</sup> *Id.* at 31.

<sup>188</sup> *Id.* at 32.

<sup>189</sup> T-59 (CEP) 4.

<sup>190</sup> *Id.* at 6.

<sup>191</sup> *Id.* at 7.

<sup>192</sup> T-40 (RAM) 23-27; T-43 (TLM) 46-53; T-58 (CEP).

<sup>193</sup> RAM-4.

<sup>194</sup> CEP-2; CEP-SRB-1 through 6.

1 GCI experts to each criticism of the GCI model raised by ACS-AN experts.<sup>195</sup> Although  
2 GCI relied on comparisons to FCC default prices to a greater extent than we prefer,  
3 GCI's proposal was, overall, sound and clearly superior to ACS-AN's. We adopt the  
4 GCI switch, transport, and signaling model subject to two modifications.

5 The first change involves modification of the GCI model to reflect the  
6 purchase of a new switch rather than a switch with refurbished components.<sup>196</sup> We  
7 agree with ACS-AN that it is only reasonable to expect that a newly constructed TELRIC  
8 compliant network would be built using new rather than refurbished switching  
9 components.

10 The second modification involves the correction to three miscellaneous  
11 errors identified by ACS-AN witness Cellupica and acknowledged by GCI witness  
12 Pitts.<sup>197</sup>

13 We direct the parties to run the GCI switching, transport, and signaling  
14 model with the changes we have described and include the recomputed rates in the  
15 interconnection agreement.

#### 16 V. Collocation and Orphan Elements

17 Collocation costs include the costs of using the physical space required for  
18 GCI to place equipment in ACS-AN's plant to facilitate interconnection. Both parties  
19 submitted models. ACS-AN witness Wilks presented a well-documented and well  
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23 <sup>195</sup>T-60 (CEP).

24 <sup>196</sup>T-60 (CEP) 8.

25 <sup>197</sup>Computational error in the additional costs of the STS-1s (T-23 (RPC) 15);  
26 incorrect adjustments to account for declines in real price of switches over time (*Id.* at 17); and absence of a main distributing frame cost (*Id.* at 15). T-60 (CEP) 10-11.

1 explained model. In contrast, GCI's model was not well documented.<sup>198</sup> It assumed  
2 that lease rates for improved floor space in a central office switching facility are the  
3 same as lease rates in commercial and industrial buildings.<sup>199</sup> However there was no  
4 explanation of why that assumption was reasonable. We therefore find that the  
5 ACS-AN collocation model produces more reasonable results.

#### 6 VI. Non-Recurring Charges

7 Non-recurring costs are one-time expenses incurred by ACS-AN for  
8 specific work activities that are required to process orders for products and services and  
9 to install and configure network elements for the benefit of GCI. They are often the cost  
10 of the labor associated with initiating and interconnection or providing a network  
11 element. These costs are assessed to cover specific activities.

12 The parties agreed that we should use TELRIC principles to set prices for  
13 non-recurring costs and that whatever model we use should be consistent with the  
14 model used to set loop, and other recurring costs. It should allow the recovery of only  
15 those costs not covered in the recurring cost models.

16 Both parties submitted models. ACS-AN created a menu of specific costs  
17 from which GCI could select, and assigned a cost to each task.<sup>200</sup> ACS-AN witness  
18 Eldred documented and described ACS-AN's model. She rebutted the criticisms of GCI  
19 witness Weiss who argued that ACS-AN's model would result in charges being  
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22 <sup>198</sup>For example, Weiss testified that the lease rates he proposed were based on a  
23 survey prepared by an Anchorage real estate appraiser. He did not provide a copy of  
24 the report in support of his testimony and under cross examination he could not recall  
the name of the appraiser. Tr. 1523-24 (THW).

25 <sup>199</sup>Tr. 1524-26 (THW).

26 <sup>200</sup>T-19 (HME) 3.

1 assessed for services that were not performed.<sup>201</sup> She supported her allegation that  
2 certain costs should be expensed by citing 47 C.F.R. § 32,6623 and 47 C.F.R.  
3 § 32,6410-6441.

4 In contrast, GCI's model was not well documented or supported by an  
5 explanation in the record. As noted by Eldred, it contained an assumption of 100  
6 percent dedicated outside plant that could not be modified. That assumption means  
7 that every needed cross connect was in place at the frame and a technician would  
8 never have to go into the field.<sup>202</sup> This assumption does not reflect the reality of  
9 ACS-AN's network. It is inconsistent with the testimony of ACS-AN witness Cellupica  
10 who said that only the first feeder pair assigned to a living unit is permanently connected  
11 to the distribution pair. The unassigned pair is made available for assignment at three  
12 terminals serving a dozen customer addresses.<sup>203</sup> At hearing ACS-AN witness Weiss  
13 affirmed that DIP/DOP assumes that lines remain hooked up regardless of whether they  
14 really are.<sup>204</sup>

15 The other significant difference between the two models is in how much  
16 automation of the processes is assumed. GCI's model assumed an automated OSS  
17 system, which is inconsistent with the later filed Agreement. GCI argues that a forward-  
18 looking network will be more automated, but we find that ACS-AN's model more  
19 accurately describes the way the network would be built if recreated today. For these  
20 reasons, we find that ACS-AN's model produces more reasonable and accurate non-  
21 recurring costs.

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23 <sup>201</sup>T-21 (HME) 6-8.

24 <sup>202</sup>T-20 (HME) at 11.

25 <sup>203</sup>T-23 (RPC) 10.

26 <sup>204</sup>Tr. 1519 (THW).



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VII. Wholesale Rates

The legal standard for us to use in setting wholesale rates is found in the Act:

A State commission shall determine wholesale rates on the basis of retail rates charged to subscribers for the telecommunications service requested, excluding the portion thereof attributable to any marketing, billing, collection, and other costs that will be avoided by the local exchange carrier.<sup>205</sup>

The Eighth Circuit Court has further clarified this standard with its decision that the costs to be excluded are not costs that are potentially avoidable but are the costs that the ILEC “will actually avoid incurring in the future.”<sup>206</sup> Neither party to this proceeding disputes the Eighth Circuit interpretation. Both maintain that their wholesale rate development methodologies are consistent with the “to be avoided” standard.

Both parties used a similar process to develop wholesale rates. Each used five steps: (1) determine categories of direct expense and their amounts; (2) establish the percentage of the cost that “will be avoided in the future;” (3) divide the total direct expenses that will be avoided by the total direct expenses to derive an average direct avoided expense; (4) multiply this average by total indirect expenses to determine total indirect expenses that will be avoided, and then add to avoided direct expenses to get Total Avoided Expenses; and (5) divide total direct and indirect expenses to be avoided by retail revenues to determine the discount rate. We followed this same series of steps in our computation of the wholesale discount.<sup>207</sup>

To calculate the wholesale discount we had to choose between specific methodological differences used in the three wholesale models. The first was whether

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<sup>205</sup> 47 U.S.C. § 252(d)(3).

<sup>206</sup> *Iowa Utilities Board v. F.C.C.*, 219 F.3d 744, 755 (8th Cir. 2000).

<sup>207</sup> See Appendix H (RCA Wholesale Decision W-2.xls).

1 the calculation should be based upon total company expenses or just the portion  
2 allocated to the local jurisdiction. GCI and the ACS-AN DCB-3 model both used total  
3 company expenses. ACS-AN's Appendix 3 uses (local) separated costs.<sup>208</sup> Because  
4 the wholesale discount only applies to local retail service, the use of separated costs is  
5 appropriate. This methodology is consistent with our decisions in the Fairbanks and  
6 Juneau arbitrations.

7           Second, we had to determine which expense categories to include in  
8 direct costs. With one exception there was no significant difference between the  
9 expenses included by ACS-AN and those included by GCI. The exception was account  
10 6560 depreciation and amortization. GCI excludes this account from its direct expense  
11 calculation. Because of its size, \$21 million (local separated depreciation expense), this  
12 represents close to half of ACS-AN's total (local) direct expenses. Witness Cabe  
13 explains GCI's rationale:

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15           Depreciation doesn't represent an actual outlay, but an attribution to the  
16 current year of the inevitable "using up" and "wearing out" of historically  
17 acquired assets. As such it is not pertinent as a measure of activity that  
18 places demands on indirect costs.<sup>209</sup>

18 While we agree with Cabe that depreciation expense is different qualitatively than other  
19 direct costs, we are not convinced that it is reasonable to exclude it from the avoided  
20 cost calculation. We include depreciation in our wholesale cost analysis.  
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24 <sup>208</sup> See Cost Models and Support Documentation, \_3\_Wholesale/Appendix 3 Anc  
25 Avoided Cost.xls, Wholesale Discount worksheet, Column I, filed by ACS-AN on August  
26 29, 2003.

<sup>209</sup>T-49 (RAC) 40.

1 GCI also advocated greater account disaggregation than what is available  
 2 from public Form M data. GCI specifically noted the level of analysis used by Verizon in  
 3 the FCC's Verizon Virginia arbitration. GCI stated that it requested account information  
 4 at a comparable level of detail from ACS-AN, but that ACS-AN was unable or unwilling  
 5 to provide it. We agree that a greater level of detail would have enabled a more precise  
 6 determination of avoided costs. We cannot determine based on this record why  
 7 ACS-AN failed to provide the information to GCI or use it in its own analysis.

8 Third, we had to determine what percentage of avoided cost to apply to  
 9 direct expenses. The record shows a closer correspondence between the ACS-AN  
 10 model in DCB-3 and the GCI model than between the two ACS-AN models, as shown  
 11 below:

Summary of Direct Cost Avoided Percentages				
		ACS Appendix DCB-3 (Blessing)	ACS Appendix 3 <sup>210</sup>	GCI (Cabe)
6110	Network Support			
6210	Central Office Switching			
6220	Operator Systems	100%		90%
6230	Central Office Transmission			
6310	IOT Expense			
6410	Cable & Wire Facilities			

24 <sup>210</sup>Cost Models and Support Documentation, \_3\_Wholesale/Appendix 3 Anc  
 25 Avoided Cost.xls, Wholesale Discount worksheet, Column K, filed by ACS-AN on  
 26 August 29, 2003.

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6510	Other Property, Plant & Equip.			
6530	Network Operations			
6533	Testing			20.6%
6540	Access			
6560	Depr. and Amortization			
6611	Product Management	90%	100%	90%
6612	Sales	90%		90%
6613	Advertising	90%		90%
6621	Call Completion Services			90%
6622	Number Services			
6623	Customer Services	90%	26.87%	92.4%

We find the ACS-AN methodology for wholesale cost development problematic for several reasons. First, although ACS-AN devotes a paragraph to discussing the 8th Circuit standard, it devotes only two sentences to describing its actual wholesale cost calculation:

To determine what percentage of cost actually will be avoided, not what can be avoided, the analysis is based on ACS's direct and indirect expense account data. The analysis then divides the avoided expense estimate by revenues subject to the discount to determine the Wholesale Discount Percentage.<sup>211</sup>

This brief description is so general that it is of little value in understanding ACS-AN's actual rate development.

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<sup>211</sup>T-3 (DCB) 50.

1 ACS-AN also submitted two completely different wholesale rate studies,  
2 one attached to David Blessing's testimony identified as DCB-3, and a second included  
3 with ACS-AN's electronic filing identified as Appendix 3 Anc Avoided Cost.<sup>212</sup> Although  
4 Blessing identifies DCB-3 as his cost study, the rate he proposes in his testimony (8.91  
5 percent) corresponds to the wholesale discount included in the electronic filing. The  
6 wholesale rate in DCB-3 is 9.17 percent. GCI identified the conflict between the two  
7 studies in its rebuttal testimony,<sup>213</sup> but Blessing did nothing to reconcile this discrepancy  
8 in his reply testimony. ACS-AN never explained why it submitted two different models,  
9 which one is the official ACS-AN version, or the rationale for the computations used in  
10 either model.

11 Finally, we note that although the two ACS-AN studies appear to produce  
12 somewhat similar results, the study in DCB-3 contains a significant entry error that,  
13 when corrected, yields a rate of 27.24 percent.<sup>214</sup> The Appendix 3 study also includes  
14 an entry error, identified by GCI, which when corrected has the effect of reducing the  
15 ACS-AN proposed wholesale rate from 8.91 percent to 6.24 percent.<sup>215</sup> We therefore  
16 find that ACS-AN's model is not reliable enough to be used to produce reasonable  
17 wholesale rates.

18 GCI's wholesale model produced a rate of 33.3 percent. Cabe's testimony  
19 in support of the GCI model is thorough, articulates the model's theoretical  
20 underpinnings, and explains GCI's choice of inputs. However, we do not find that all  
21 aspects of Cabe's methodology are reasonable.

22 \_\_\_\_\_  
23 <sup>212</sup>Cost Models and Support Documentation, \_3\_Wholesale/Appendix 3 Anc  
24 Avoided Cost.xls, Wholesale Discount worksheet, filed by ACS-AN on August 29, 2003.

25 <sup>213</sup>T-50 (RAC) 1-2.

26 <sup>214</sup>Appendix I (RCA Appendix W-1.xls).

<sup>215</sup>T-50 (RAC) at 2.

1 We adopt GCI's proposed avoided cost percentages. GCI provided direct  
2 prefiled testimony supporting these percentages. The correlation between GCI  
3 percentages and the ACS-AN DCB-3 percentages supports our finding that the GCI  
4 percentages are reasonable. We are also persuaded by Cabe's extensive discussion  
5 and analysis of evidence suggesting that a reduction in scale of retail activity results in a  
6 proportional reduction in retailing costs. We do not find ACS-AN's apparent<sup>216</sup>  
7 assumption that avoided cost should be further limited by the actual wholesale  
8 penetration rate reasonable. This adjustment did not appear in both of ACS-AN's  
9 models, and was not supported by testimony.

10 Finally, we determined the retail revenue base to use in our final  
11 calculation in which we divide total avoided cost by local retail revenue. When ACS-AN  
12 calculations are corrected for entry errors the only difference between GCI's and  
13 ACS-AN's numbers comes from local service revenue from resellers. GCI excluded this  
14 revenue; ACS-AN did not. We agree with GCI. Revenue from wholesale customers is  
15 not from end-users and by definition is wholesale rather than retail revenue and should  
16 be excluded.

17 Analyzing these decisions we calculate a wholesale discount rate of 24.62  
18 percent.<sup>217</sup>

### 19 VIII. Contract Issues

20 Each of the parties filed proposed contracts: GCI used the existing  
21 interconnection agreements between ACS and GCI for the Juneau and Fairbanks  
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24 <sup>216</sup>We say "apparent" based upon our review of the two ACS-AN wholesale  
25 models. ACS-AN did not provide direct testimony to explain its wholesale rationale.

26 <sup>217</sup>See Appendix H, Calculation worksheet, cell F45.

1 service areas as templates for its proposed contract;<sup>218</sup> ACS-AN used its  
2 interconnection agreement with Level III as a template for its proposed contract.<sup>219</sup> Both  
3 parties supported their proposed contracts with testimony. We use the contract  
4 negotiated in the Fairbanks/Juneau arbitration, and modify it to accommodate testimony  
5 in the record where the existing contract provisions are not adequate to resolve issues  
6 between the parties. Our goal is a contract that addresses the issues that have arisen  
7 or will arise between the parties and sets clear rules for resolving them. It is in the  
8 public interest to minimize the conflicts between these parties because our experience  
9 has shown that customers suffer when these companies disagree.<sup>220</sup>

10 We have reviewed the contract proposals submitted by the Parties on  
11 April 28, 2004.<sup>221</sup> We decide disputed issues and require the parties to submit a single  
12 revised version of the contract that complies with the decisions described in the  
13 paragraphs below for our approval. We will review the final contract language for  
14 compliance with this order. If, during the process of producing a final agreement, the  
15 parties concur that additional terms are necessary, they should include them in the final  
16 document.

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19 <sup>218</sup>T-77 (MSK) 2.

20 <sup>219</sup>T-35 (SAP) 7.

21 <sup>220</sup>See Docket U-02-97. That proceeding is titled *In the Matter of the*  
22 *Investigation into Disparities in Service Provided to Customers of a Competitive Local*  
*Exchange Carrier and an Incumbent Local Exchange Carrier.*

23 <sup>221</sup>Contract sections herein refer to the contract proposals filed April 28, 2004:  
24 *Interconnection Agreement Between ACS of Anchorage, Inc. and GCI Communication*  
25 *Corp.* filed by ACS-AN (Interconnection Agreement); *Interconnection and Resale*  
26 *Agreement Between ACS of Anchorage, Inc (“ACS”) and GCI Communication Corp.*  
*(“GCI”)* filed by GCI (Interconnection and Resale Agreement).

1 A. Term of Agreement

2           The parties disputed the term of the agreement. ACS-AN proposed a two-  
3 year agreement and GCI proposed a five-year agreement. We find a five-year contract  
4 is reasonable. We want to provide stability in the market for consumers and enable the  
5 parties to avoid the expense of renegotiating this contract two years hence. We can  
6 accommodate changes to the contract that may become necessary to adapt to  
7 technological changes, operational changes or changes in law. Part A section 2.2 in the  
8 GCI proposed contract is a “change in law” provision such that the parties will  
9 commence negotiations to amend the contract should a change in law make this  
10 agreement or any of its provisions therein inconsistent with current law. We find the  
11 GCI provision reasonable. We reject the ACS-AN language in Part A section 2.2  
12 describing ISP traffic because it would make changes to the contract automatic rather  
13 than subject to negotiation and agreement.

14           One of the standards for implementation of unbundling obligations  
15 required the Act is parity. The ILEC must make its network available and resell its  
16 services to a requesting carrier in the same manner it provides service to itself. Both  
17 contract proposals contain language which the Parties claim prevent employees from  
18 participating in behaviors which disrupt service or “disparage” the competitive carrier, its  
19 products or services when interfacing with a competitor’s subscribers.<sup>222</sup> We expect the  
20 parties to adhere to the standards of ethical behavior without the need for specific  
21 provisions to that effect. All contracts have an implied covenant of good faith and fair  
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24 <sup>222</sup>See Interconnection and Resale Agreement, Part C Attachment IV, Sections 1,  
25 20.5, 20.6; Part C Attachment VIII, Section 2; Interconnection Agreement, Attachment  
26 IV, Section 7.



1 dealing. We find these ethical and legal obligations adequate and require that the  
2 provisions addressing these behaviors be omitted from the final contract version.

3 B. Reciprocity of Obligations

4 ACS-AN proposed contract language to make obligations under the  
5 contract reciprocal for ACS-AN and GCI. Reciprocal obligations to provide unbundled  
6 network elements to ACS-AN are not germane to this docket. The purpose of this  
7 proceeding is to address the obligations of the incumbent local exchange carrier,  
8 ACS-AN, under Section 251(c) of the Act. This docket is not the forum for consideration  
9 of GCI's status as a CLEC or an ILEC and its obligations in the market. We require the  
10 Parties to remove language related to reciprocal GCI obligations to ACS-AN.

11 C. Rates and Charges

12 Rates for services rendered under the contract are listed in Part C  
13 Attachment II. Charges for services not included in Attachment II must be negotiated by  
14 the parties and incorporated into the contract. The contract should not contain  
15 provisions that allow ACS-AN to default to use of retail tariff rates when an  
16 unanticipated service is required by GCI. We reject ACS-AN's proposed provision in  
17 Part A section 1.1 as inconsistent with TELRIC standards that require a forward-looking  
18 cost analysis. Retail tariff rates are set using embedded costs. Disputes regarding the  
19 services included for particular charges should be resolved using the dispute resolution  
20 procedures in the contract.

21 Work orders for overtime hours worked should be scheduled anonymously  
22 so that overtime charges are not incurred by one party or the other in a discriminatory  
23 manner. We adopted ACS-AN's model for nonrecurring charges; accordingly, any  
24 contract language regarding cost elements included in these charges must be  
25 consistent with that model. ACS-AN suggests that billing procedures have been  
26

1 established by the parties as part of their “Back Office Procedures.”<sup>223</sup> ACS-AN stated  
2 that it receives GCI’s authorization before completing work involving overtime  
3 charges.<sup>224</sup> The parties should continue this practice and, if disputes arise, the parties  
4 should invoke the billing dispute procedures in the contract.

5 The parties also had a number of disputes involving time and materials  
6 billing (T&M). We find it reasonable to allow GCI the opportunity to review and dispute  
7 T&M charges.<sup>225</sup> The parties apparently resolved in testimony the issue of T&M billing  
8 related to No Trouble Found (NTF) conditions. ACS-AN agreed that it would not assess  
9 charges for an NTF condition provided GCI agreed to proper tagging of the NID by both  
10 Parties.<sup>226</sup> The contract language should be amended to be consistent with this  
11 agreement for NTF conditions. For other disputes about T&M billing or other billing  
12 matters, the Parties should invoke the Dispute Resolution procedures in this agreement.

13 D. Dispute Resolution Procedures

14 Dispute resolution procedures were proposed by both parties. We believe  
15 that these provisions are essential to insuring that the parties continue to work together  
16 for the benefit of their customers. The lack of fast and fair dispute resolution procedures  
17 will enable whichever party benefits from the status quo in a particular situation to  
18 prolong the dispute.

19 ACS-AN and GCI proposed different dispute resolution processes in Part  
20 A Section 21 of the contract. The GCI proposal addressing billing and operational

22 <sup>223</sup>T-38 (JH) 6.

23 <sup>224</sup>T-38 (JH) 6-7.

24 <sup>225</sup>See Interconnection and Resale Agreement, Part C Attachment IV Section  
20.1.9.7.

25 <sup>226</sup>T-36 (SAP) 16.

1 disputes describes a more efficient process than the ACS-AN proposal.<sup>227</sup> We adopt  
2 the GCI dispute resolution process that requires negotiation by company  
3 representatives or officers for up to 20 days before either party requests arbitration.  
4 The parties shall retain an arbitrator who shall specify the rules<sup>228</sup> governing the dispute  
5 proceedings. The arbitration shall conclude with a written decision within 60 days of the  
6 request for arbitration. We find this proposal is reasonable and direct that Part A  
7 sections 21.4, 21.5, 21.6, and 21.7 of the Interconnection and Resale Agreement should  
8 be incorporated into the contract.<sup>229</sup>

9 We decline to adopt dispute resolution procedures designed to address  
10 development of an operations manual and electronic interface. We leave development  
11 of an operations manual and electronic interface to the parties; and any disputes may  
12 be addressed using the contract dispute resolution procedure.

#### 13 E. Notice of Changes to the Network, Procedures and Resold Services

14 The parties proposed different provisions addressing the amount and type  
15 of notice required for changes to the network, changes to methods and practices for  
16 providing network elements and resold services, and changes to the electronic  
17 interface. The contract should indicate that notice of network changes must be provided  
18 in accordance with 47 C.F.R. §§ 51.325 through 51.335. GCI proposed a provision  
19 requiring ACS-AN to provide interface and technical information needed to plan  
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21

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22 <sup>227</sup>Interconnection and Resale Agreement, Part A, Section 21.4, 21.5, 21.6, and  
23 21.7; Interconnection Agreement, Part A, Section 21.

24 <sup>228</sup>ACS-AN proposed Judicial Arbitration and Mediation Services Comprehensive  
25 Arbitration Rules and Procedures and GCI proposed AS 09.43.050-070 Uniform  
26 Arbitration Act.

<sup>229</sup>See n.221.

1 interconnection within 14 days of the notice.<sup>230</sup> We find this proposal that mirrors the  
2 federal law reasonable. We adopt Part A Section 1.2 of the Interconnection  
3 Agreement<sup>231</sup> over Part A section 1.2 of the Interconnection and Resale Agreement  
4 because the ACS-AN version directly cites the governing regulations rather than  
5 paraphrasing them. Use of the exact language in the regulations affords the parties the  
6 benefit of other parties' experiences if they later disagree about how the language  
7 should be interpreted.

8           Regarding routine changes to methods and procedures used to provide  
9 service and network elements,<sup>232</sup> we adopt a combination of the proposed provisions.  
10 ACS-AN shall provide GCI at least 30 days written notice of changes to routine methods  
11 and practices. The notice should include the proposed effective date for the change  
12 and the information GCI needs to accommodate the change. If GCI believes a change  
13 will have a material and adverse impact on its ability to exercise its rights under this  
14 agreement, GCI may invoke the Dispute Resolution Procedures in the contract.

15           ACS-AN must provide thirty days written notice to GCI of any changes to  
16 the operational support system (OSS). The notice shall include the information GCI  
17 needs to train employees and accommodate the change as well as point of contact  
18 personnel for communications needed to complete the change.

19           We recognize that different types of resold services require different levels  
20 of notification. We find that the Parties' provisions addressing notification of change are  
21 ambiguous. We reject Part C Attachment II, Section 3.2 of the Interconnection  
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23 <sup>230</sup>Interconnection and Resale Agreement, Part C Attachment III, Section 3.2.2,  
applicable to deployment of GR-303 DLC systems.

24 <sup>231</sup>See n.221.

25 <sup>232</sup>Interconnection Agreement, Part C Attachment IV, Section 13 and  
Interconnection and Resale Agreement, Part C Attachment IV, Section 8.

1 Agreement because the language is vague as to intent and allows undue discretion for  
2 discontinuance and modification of resale services. For addition and modification of  
3 resold retail services, ACS-AN is required to give notice equivalent to that required for  
4 any tariff revision. Part C Attachment II, Section 7 of the Interconnection Agreement  
5 reasonably reflects this requirement. ACS-AN must provide at least thirty days written  
6 notice to GCI before it discontinues a resold service. Thirty days notice provides GCI  
7 time to file objections to the proposed discontinuance. Part C Attachment IV, Section  
8 11 of the Interconnection and Resale Agreement, with a revised time period of thirty  
9 days, reasonably reflects this requirement.

10 F. Operational Support Systems (OSS)

11 In its contract proposal, GCI describes the OSS system currently in use by  
12 the Parties.<sup>233</sup> ACS-AN included its OSS proposal in Exhibit A. ACS-AN proposes an  
13 OSS deployment cost of \$234,140 plus licensing fees and monthly recurring charges for  
14 technical support and user fees. ACS-AN does not provide sufficient detail about the  
15 proposed system and how it would be implemented to warrant adoption. ACS-AN has  
16 not provided enough detail about the proposed system for GCI or us to evaluate it.<sup>234</sup>  
17 We therefore adopt the language in Part C Attachment IV, Section 18 of GCI's proposed  
18 contract. We direct the Parties to evaluate the options for developing an efficient, cost-  
19 effective electronic support system and bring any negotiated settlement to us in another  
20 docket. ACS-AN should make available to GCI the data described in GCI's proposed  
21 Part C Attachment IV, Section 18. ACS-AN is required to notify GCI of changes to the  
22 system and to supply any alternative means for exchange of information on a parity  
23 basis.

24 \_\_\_\_\_  
25 <sup>233</sup>Interconnection and Resale Agreement, Part C Attachment IV, Section 18.

26 <sup>234</sup>T-84 (CRE).

1 We also determine that ACS-AN should provide certain preordering and  
2 ordering information to GCI in the same manner it provides this information to itself.  
3 The parties resolved a number of ordering and provisioning procedural issues in the  
4 Processing and Provisioning Interval Metrics Agreement (Metrics Agreement)  
5 incorporated into the proposed contracts.<sup>235</sup> The parties disagree about how rejected  
6 orders should be handled and GCI's access to status of due dates, trouble tickets, and  
7 held orders. ACS-AN should provide procedures and methods comparable to its  
8 handling of its own customer orders. The record does not describe ACS-AN's  
9 procedures. We find it reasonable to require ACS-AN to return a rejected order to GCI  
10 with an explanation within one hour of the electronic order submission. GCI should then  
11 either correct the order or contact ACS-AN to resolve the problem. This record does not  
12 tell us what information GCI now has for viewing due dates, order status and trouble  
13 ticket status. For purposes of this final contract, we require the parties to describe the  
14 current system and, if this current system does not reflect parity of service, the parties  
15 must work to implement an adequate system as soon as possible and amend this  
16 contract accordingly.

17 G. Performance Standards

18 Whether the contract should include performance standards was debated  
19 during the hearing. ACS-AN testified that they do not operate under performance  
20 standards when serving their own customers therefore they should not be required to  
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23

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24 <sup>235</sup> See *Joint Stipulation Resolving Order Processing and Provisioning Terms of*  
25 *the Contract*, filed March 12, 2004.  
26

1 operate under such standards when serving GCI's customers.<sup>236</sup> GCI witnesses  
2 proposed specific performance standards and financial penalties if they were not met.<sup>237</sup>

3 Incumbents must provide services to competitors that are comparable to  
4 what they offer their own customers. Although we find it remarkable that ACS-AN has  
5 no performance standards to guide its customer service representatives, the testimony  
6 of Ms. Hume is persuasive. GCI can expect no better from ACS-AN than ACS-AN  
7 offers to its other customers. If ACS-AN later adopts performance standards for its  
8 customer service representatives, they should be applied to GCI's customers as well as  
9 its own.

10 On May 10, 2004, we issued Order U-96-89(41) accepting the parties'  
11 stipulation to incorporate the Metrics Agreement into the proposed interconnection  
12 agreements in this docket. This Metrics Agreement resolves many of the performance  
13 measurement and reporting disputes between the parties. We therefore decline to  
14 adopt further performance standards and reports comparable to those listed in GCI's  
15 proposed Part C Attachment IX. Rather, if necessary, the parties should include  
16 standards and remedies similar to those included in the proposed GCI and ACS-F<sup>238</sup>  
17 Interconnection Agreement, Part C Attachment IX<sup>239</sup> to the extent these standards are  
18 not already included in the Metrics Agreement.

19  
20 <sup>236</sup>Tr. 599 (JH); T-38 (JH) 13.

21 <sup>237</sup>T-77 (MSK) 7, 11-14.

22 <sup>238</sup>ACS of Fairbanks, Inc. d/b/a Alaska Communications Systems, ACS Local  
Service, and ACS (ACS-F).

23 <sup>239</sup>Filed May 18, 2004, into Docket U-03-63. Docket U-03-63 is titled *In the Matter*  
24 *of the Petition filed by ACS OF FAIRBANKS, INC. d/b/a ALASKA COMMUNICATIONS*  
25 *SYSTEMS, ACS LOCAL SERVICE and ACS for Arbitration with GCI*  
26 *COMMUNICATIONS CORP. d/b/a GENERAL COMMUNICATION, INC. and d/b/a GCI,*  
*under 47 U.S.C. §§ 251 and 252 for the Purpose of Local Exchange Competition.*

1 H. Resale Part C Attachment II

2           The resale provisions proposed by GCI are the same as those now in  
3 effect in the Fairbanks service area. GCI prefiled testimony indicates there have been  
4 few problems related to the resale between the two companies.<sup>240</sup> GCI's proposed  
5 provisions should be included in the final contract. The ACS-AN proposal includes a  
6 number of sections that reiterate provisions found elsewhere in the contract and restate  
7 or paraphrase state and federal regulations related to resold services. We find that  
8 citations to specific rules and regulations are more clear and accurate than  
9 paraphrasing of those same regulations. Therefore, we require omission of  
10 paraphrased material in ACS-AN proposed sections 2.1, 2.2, and 2.7.

11           We find that ACS-AN's proposed Sections 6 and 9 are reasonable  
12 procedural provisions and should be included in the contract. Provisions in ACS-AN's  
13 proposed Section 5.1 address operational matters and should also be included in the  
14 contract. In testimony, GCI claimed it did not want branding from ACS-AN so Section  
15 5.2 is unnecessary and should be omitted from the contract.<sup>241</sup>

16           Finally, we reject ACS-AN Section 2.6 as it imposes restrictions on resale  
17 of services that are inconsistent with federal law.<sup>242</sup>

18 I. Unbundled Network Elements Part C Attachment III

19           Under Section 251(c) of the Act, ACS-AN, as the incumbent local  
20 exchange carrier (ILEC), is required to make unbundled network elements available to  
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22  
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24 <sup>240</sup>T-72 (FWH) 13.

25 <sup>241</sup>T-72 (FWH) 16.

26 <sup>242</sup>47 U.S.C. § 251(b)(1)).



1 requesting carriers at just and reasonable rates. In the Triennial Review Order,<sup>243</sup> the  
2 FCC revised ILEC obligations regarding network elements. The FCC required state  
3 commissions to review the “necessary” and “impair” standards to determine which  
4 UNEs should be retained in each state.<sup>244</sup> ACS-AN’s obligations as an ILEC were lent  
5 further uncertainty when the United States District Court of Appeals for the District of  
6 Columbia Circuit (D.C. Circuit Court) issued an order vacating portions of the Triennial  
7 Review Order and then stayed its decision. We stayed our own review of UNE  
8 obligations in Docket R-03-7 in response to the uncertainty surrounding the ultimate  
9 status of the Triennial Review Order mandates. The District Court stay is no longer  
10 effective and the role assigned to the states by the FCC in setting UNE prices for  
11 different network elements is uncertain. We base this decision on the authority  
12 delegated to us as a state commission under the Telecommunications Act of 1996  
13 because that is the controlling law.

14           The parties have recently negotiated a comprehensive agreement which  
15 may resolve some of these issues. We commend the parties’ efforts to create certainty  
16 for their customers in this uncertain legal environment. Our goal is the same, that  
17 customers not suffer harm as the parties’ commercial relationships and the legal  
18 landscape shift. They have not filed the complete agreement with us, therefore we do  
19 not know whether its terms modify the elements ACS-AN will continue to provide. It is  
20 not our intent to supersede any agreement parties may have on this issue.

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21  
22 <sup>243</sup>*Review of the Section 251 Unbundling Obligations of Incumbent Local*  
23 *Exchange Carriers*, CC Docket Nos. 01-338 *et al.*, 18 FCCRcd 16978 (2003) (Triennial  
24 Review Order).

25 <sup>244</sup>We opened docket R-03-7 in response to the Triennial Review Order  
26 mandates. Docket R-03-7 is titled *In the Matter of the New Requirements of 47 C.F.R.*  
*§ 51 Related to Federal Communications Commission Triennial Review Order*  
*Interconnection Provisions and Policies* .

1           In addition to the network elements listed in its proposed contract,<sup>245</sup>  
2 ACS-AN is obligated to make available unbundled network elements for local switching,  
3 local tandem switching, interoffice transport, signaling networks and call-related  
4 databases. Since ACS-AN did not propose provisions governing these unbundled  
5 network elements, we determine that the final version of the agreement should include  
6 the provisions proposed by GCI in Part C Attachment III, Sections 4 through 13 of the  
7 Interconnection and Resale Agreement. Further, since we have adopted GCI's model  
8 for switching, transport and signaling, the parties must conform the final contract  
9 language to that model.

10           The parties each listed the loops they agreed would be offered through  
11 this contract in Attachment III. GCI listed a 4-wire analog loop in addition to those listed  
12 by ACS-AN. In prefiled testimony, ACS-AN indicated it did not object to providing this  
13 type of loop although it did object to conditioning it.<sup>246</sup> The ACS-AN proposed definition  
14 for the 4-wire analog loop should be included in the contract.<sup>247</sup>

15           The loop rates were determined using forward-looking TELRIC standards.  
16 The TELRIC methodology prices the incumbent's network as if it was rebuilt today.  
17 Parts of ACS-AN's current network are capable of delivering service at forward-looking  
18 design standards.<sup>248</sup> We find that ACS-AN is not required to bear the cost of upgrading  
19 its existing network beyond the ability to provide basic telephone service to serve GCI's  
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21           <sup>245</sup>Local loop and subloops; transmission facilities; rights-of-way, ducts, conduits,  
22 poles; collocation; operations support systems.

23           <sup>246</sup>T-37 (SAP) 21-22.

24           <sup>247</sup>"A 4-Wire analog loop is a transmission facility that provides a non-signaling  
25 voice band frequency spectrum of approximately 300 Hz to 3000 Hz. The 4-Wire  
26 analog loop provides separate transmit and receive paths." T-37 (SAP) 21.

<sup>248</sup>T-37 (SAP) 2.

1 customers. The loop price covers ordering of a basic POTS line and any conditioning  
2 required to provide additional or advanced services should be billed in accordance with  
3 rates in Part C Attachment I. The parties must revise the contract language to reflect  
4 this decision.

5 We are persuaded by ACS-AN's testimony against including a table of  
6 loop specifications that ACS-AN loops must meet.<sup>249</sup> We will not require inclusion of  
7 GCI's proposed table 3.1, in Part C Attachment III, provided that ACS-AN operates each  
8 type of loop within industry-accepted technical descriptions and parameters and each  
9 loop meets the minimum requirements for POTS. ACS-AN must also provide GCI with  
10 all its loop qualification information so that GCI can determine whether the loop it orders  
11 will support intended services. Provisions to this effect must be included in the final  
12 contract version.

13 We find that ACS-AN's language in Section 3.13 governing access to the  
14 Network Interface Device (NID) more accurately reflects requirements of the Act. We  
15 require that this language be used in the final contract version.

16 The parties proposed conflicting provisions addressing the EML studies<sup>250</sup>  
17 needed to assess whether a given loop can support DSL service. In Section 3.15.10,  
18 ACS-AN proposes to limit EML study orders to one per day per serving area. In  
19 testimony, ACS-AN claims it applies this limit to its own operations.<sup>251</sup> We find this limit  
20 reasonable as it reflects parity of service. The parties should also include timelines for  
21  
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23 <sup>249</sup>T-37 (SAP) 2-3.

24 <sup>250</sup>Estimated Measured Loss transmission study to determine feasibility for a loop  
25 to support DSL service.

26 <sup>251</sup>T-36 (SAP) 26.

1 completion of EML studies and subsequent line conditioning in the final contract  
2 version.

3 J. Interconnection and Operational Requirements Part C Attachment IV

4 The Point of Interconnection (POI) language in the Parties' contract  
5 proposals contains subtle differences. We find GCI's provision 19.3 and 19.4 in this  
6 section to be more precise than ACS-AN's Sections 1.2.3, 1.2.4 and 1.2.5, and  
7 therefore more reasonable. We are also persuaded by GCI's prefiled testimony<sup>252</sup>  
8 indicating that definition of the POI should be the financial demarcation point for each  
9 Party's network and should be identified as the central office of the terminating switch.  
10 The GCI provisions should be included in the final contract version.

11 We find that the parties' language regarding access to toll trunking, toll  
12 traffic and recorded usage data is unclear.<sup>253</sup> We reject ACS-AN proposed Sections  
13 1.2.1.2, 2.2.5a, 3, 4.2 and 5.2 for lack of clarity; ACS-AN failed to explain the provisions  
14 in response to GCI's objections.<sup>254</sup> We note there are no provisions in the proposed  
15 interconnection agreement between ACS-F and GCI<sup>255</sup> regarding toll trunking. We  
16 direct the parties to review the need for provisions addressing toll trunks and, if needed,  
17 to include clearly written provisions in the final contract version.

18 We direct the Parties to revise their proposed provisions regarding  
19 recorded usage data to clearly articulate toll call reporting and billing requirements.<sup>256</sup>

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20 <sup>252</sup>T-75 (ET) 2.

21 <sup>253</sup>Interconnection Agreement, Part C Attachment IV, Sections 2.2.5, 3, 4.2, 5.2  
22 and Part C Attachment VIII, Sections 3 and 4.1; Interconnection and Resale Agreement,  
23 Part C Attachment IV, Section 19.9 and Part C Attachment VIII, Sections 5 and 6.1.

24 <sup>254</sup>T-75 (ET).

25 <sup>255</sup>See n.239.

26 <sup>256</sup>Interconnection and Resale Agreement, Part C Attachment IV, Section 19.9;  
Interconnection Agreement, Part C Attachment VIII, Sections 3 and 4.1.

1 We note that recorded usage data provisions in the proposed interconnection  
2 agreement between ACS-F and GCI do not contain references to toll call records. The  
3 parties should review the procedures and requirements for this information and submit  
4 provisions that accurately reflect practice and comply with Access Charge regulations.  
5 Where necessary, these provisions should be consistent with the switching, transport  
6 and signaling model we adopted.

7 GCI proposed a number of provisions addressing testing procedures  
8 which ACS-AN did not oppose in its testimony. We find the following provisions to be  
9 reasonable and consistent with parity of service principles. GCI proposed Sections  
10 20.2.1 Access to Line Test System (where technically feasible), 20.2.2 Cooperative  
11 Maintenance Meetings, 20.2.4 Testing Resold Services, 20.2.5 Testing UNE Loops,  
12 20.2.7 Joint Field Problem Resolution and 20.2.9 Resale Feature Verification should be  
13 included in the final contract version. We omit GCI's Section 20.2.6 because it allows  
14 GCI access to the network side of the NID.

15 K. Collocation Part C Attachment V

16 There are several minor discrepancies in the Collocation provisions  
17 proposed by the Parties. In Sections 3.8.1, 3.16.1 and 3.24, we find GCI should be  
18 responsible for actual costs for collocation projects provided the costs do not exceed the  
19 estimated cost for a job by 12.5 percent.<sup>257</sup> We are confused by the proposed rate  
20 categories in ACS-AN Sections 8.8 and 8.9. Both categories of Cable Space and Cable  
21 Rack Space refer to the Cable Rack Space Charge in Part C Attachment I. This may be  
22 a typographical error which should be corrected in the final contract version.

23 We decline to adopt the Collocation Implementation Fee proposed by GCI  
24 in Section 8.11. From testimony, it is clear that the parties have not agreed on the

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25 <sup>257</sup>GCI proposed 10 percent and ACS-AN proposed 15 percent.  
26

1 services that would be included in such a fee.<sup>258</sup> If the parties agree to an  
2 implementation fee at a later date, they may incorporate it into this agreement through  
3 an amendment.

4 GCI's proposed Section 8.10 requires ACS-AN to provide a count of total  
5 working analog lines served by the premise point to a collocation request. GCI states it  
6 requires this information to provide estimated floor space and frame space in its  
7 application for collocation.<sup>259</sup> ACS-AN objected to this requirement stating GCI wanted  
8 this information for marketing purposes and to evaluate its potential investment.<sup>260</sup> We  
9 are persuaded by GCI testimony that the total number of analog lines is too aggregated  
10 to allow determination of specific revenue information. ACS-AN should provide the total  
11 number of working analog lines at a requested collocation site. In general, the GCI  
12 proposed language for Attachment V Collocation should be used in the final contract  
13 version along with the ACS-AN proposed Section 8.7 regarding cross connections.

14 L. Rights of Way Part C Attachment VII

15 In this section of the contract, the Parties had minor disagreements  
16 regarding unauthorized attachments and related fees.<sup>261</sup> We find that the proposed  
17 unauthorized attachment fee and notice fee are more appropriately negotiated in the  
18 Parties' pole attachment agreements and should not be included in this agreement.

22 <sup>258</sup>T-36 (SAP) 4-5; T-82 (DMC) 3-4.

23 <sup>259</sup>T-80 (DMC) 3.

24 <sup>260</sup>T-36 (SAP) 3-4.

25 <sup>261</sup>Interconnection Agreement, Part C Attachment VI, Section 2.11.1; T-80 (DMC)  
26 6-7; T-82 (DMC) 4-5; T-36 (SAP) 5-7.

1 M. Miscellaneous Provisions

2 ACS-AN's proposed contract contains provisions pertaining to waivers of  
3 legal rights.<sup>262</sup> We find these provisions unnecessary as the final interconnection  
4 agreement will be subject to applicable federal and state law. By agreement to the  
5 terms of this contract, neither party would waive its rights to due process.

6 The parties disagreed on the confidential treatment of audit information  
7 under Part A Section 5.4 of the proposed contracts. ACS-AN proposes that audit  
8 information be confidential and subject to Part A Section 12 of the contract. Section 12  
9 provides for confidential treatment of information disclosed to another party under this  
10 agreement. We find that Section 12 covers audit information and that Part A, Section  
11 5.4 of the Interconnection and Resale Agreement should be used rather than Part A,  
12 Section 5.4 of the Interconnection Agreement.

13 The parties have left a significant number of contract issues unresolved.  
14 We have ruled on a number of the disputed provisions based on applicable regulations,  
15 federal law, and the testimony of the Parties. We require ACS-AN and GCI, by July 26,  
16 2004, to submit, for our final approval, one interconnection agreement incorporating our  
17 determinations in this order.

18 IX. Conclusion

19 This order sets interconnection rates for GCI to pay ACS-AN in the  
20 Anchorage market. We find that \$19.15 is a fair loop rate. We also determined prices  
21 for other unbundled network elements. Finally we gave the parties guidance on  
22 appropriate contract terms and required them to cooperate to produce a final contract.  
23 The process to reach these decisions has been laborious for the parties and the  
24 Commission. Courts and the Federal Communications Commission have interpreted

25 \_\_\_\_\_  
26 <sup>262</sup>Interconnection Agreement, Part A, Sections 2.3, 32.

1 our responsibility under the Act in various ways while this case was pending. We relied  
2 principally on the words of section 252 of the Act. We find that the prices and terms of  
3 interconnection described in detail in this order set just and reasonable rates consistent  
4 with our responsibility under that statute.

5 **X. ORDER**

6 THE COMMISSION FURTHER ORDERS that by 4:00 p.m., July 26, 2004, ACS of  
7 Anchorage, Inc. d/b/a Alaska Communications Systems, ACS Local Service, and ACS  
8 and GCI Communications Corp. d/b/a General Communication, Inc., and d/b/a GCI  
9 jointly file an interconnection agreement consistent with our determinations in this  
10 Order.

11 DATED AND EFFECTIVE at Anchorage, Alaska, this 25th day of June, 2004.

12 BY DIRECTION OF THE COMMISSION  
13 (Commissioners Mark K. Johnson and Dave Harbour, not participating.)  
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16 ( S E A L )  
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U-96-089(42)

APPENDICES A – I

ARE NOT AVAILABLE IN .PDF FORMAT.

To view these appendices, please go to  
<http://www.state.ak.us/rca/telecomm/Telecomm.htm>

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STATE OF ALASKA

THE REGULATORY COMMISSION OF ALASKA

Before Commissioners:

Mark K. Johnson, Chair  
Kate Giard  
Dave Harbour  
James S. Strandberg  
G. Nanette Thompson

In the Matter of the Petition by GCI )  
COMMUNICATIONS CORP. d/b/a GENERAL )  
COMMUNICATION, INC., and d/b/a GCI for )  
Arbitration under Section 252 of the )  
Telecommunications Act of 1996 with the )  
MUNICIPALITY OF ANCHORAGE d/b/a )  
ANCHORAGE TELEPHONE UTILITY a/k/a ATU )  
TELECOMMUNICATIONS for the Purpose of )  
Instituting Local Exchange Competition )

U-96-89  
ORDER NO. 42

DISSENTING STATEMENT OF

COMMISSIONER JAMES S. STRANDBERG

TO ORDER NO. 42 entitled:

ORDER SETTING PRICES FOR ACCESS TO UNBUNDLED NETWORK  
ELEMENTS, RESALE AND TERMS AND CONDITIONS OF  
INTERCONNECTION  
(Issued June 25, 2004)

I dissent from the majority opinion in Section III.B.4.e, specifically on the model input of percent of feeders that would be constructed in the road prism. I first review the record before us on this specific input, consider the majority's reasoning, and then recommend a different monthly rate, based on my proposed percent road prism construction model input.

1 Feeder Routing – A review of the record

2 ACS-AN proposed 89.7 percent of the feeder construction in paved  
3 roadway areas.<sup>1</sup> It proposed unit costs for different trench conditions, with Road Prism  
4 construction at \$86.09/LF and Trench and backfill at \$43.34/LF.<sup>2</sup> ACS-AN proposed a  
5 unit cost of \$6.09/LF for trenching and backfilling outside of roadways.

6 To justify this routing largely within paved streets, ACS-AN reasoned there  
7 are practical constraints that limit construction outside of the road prism. First there  
8 may not be enough space.<sup>3</sup> Also, there are often existing buried utilities within the  
9 unpaved areas, which would conflict with the feeder installation.<sup>4</sup> ACS-AN asserted that  
10 short segments outside of the road prism will require L-turns, and additional difficulties  
11 with manhole and vault installations.<sup>5</sup>

12 GCI proposed that 47 percent of the feeder construction be outside of  
13 road prisms,<sup>6</sup> as a means to reduce costs of construction. This proposal was based on  
14 a route analysis that was provided with photos of the proposed alignment, and a table of  
15 assumed routing conditions.<sup>7</sup>

17 \_\_\_\_\_  
18 <sup>1</sup>DRF-6 ACS/GCI Feeder Route Summary

19 <sup>2</sup>ACS Civil Input workbook; Road Prism Construction worksheet and Trench and  
Backfill worksheet, respectively.

20 <sup>3</sup>T-14 (SDC) 8.

21 <sup>4</sup>*Id.* at 9.

22 <sup>5</sup>*Id.* at 10.

23 <sup>6</sup>GCI employed a definition for road prism used by the Municipality of Anchorage.  
This definition considers the distance from the traffic area and the depths from the  
roadbed as determining factors of whether a buried utility is in or out of the prism. This  
24 definition is used in assessing permit costs. T-52 (DRF) 16. ACS-AN defines roadway  
prism construction as feeder plant under paved surface. T-15(SDC) Appendix C at 2.

25 <sup>7</sup>DRF-6

1           While informative, GCI does not in my judgment provide enough data to  
2 conclude that the feeders can actually be placed outside of the road prism. Notably,  
3 GCI does not show the physical limit of the right of way, nor information on existing  
4 buried utilities along the route to confirm the feasibility of off-street placement.<sup>8</sup> I find  
5 inadequate record to conclude that the GCI alignments are workable and will actually  
6 result in cost savings.

7 The majority's reasoning

8           The majority was impressed that GCI did a visual field inspection, and  
9 found that this was more likely to be accurate than the ACS-AN plan review. However,  
10 the surface visual inspection without specific assessment of the presence of buried  
11 utilities or realistic viewing of the utility routing are in my opinion inadequate to establish  
12 that GCI's proposal is credible. I am therefore unwilling to accept GCI's road prism  
13 percentages that reduce cost of construction. In my opinion, routing savings on design  
14 and construction of utilities in existing metropolitan rights of way must be confirmed with  
15 valid preliminary layouts before realistically being used in a cost study.

16 Conclusion

17           I therefore find in favor of ACS-AN, that construction will be 89.7 percent  
18 in the paved areas of roadways. Attachment 1 provides a model output summary, using  
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23  
24 <sup>8</sup>ACS-AN testified "In a road prism you've got a lot more to contend with. And,  
25 you know, I – I don't see very many grassy areas in a road prism. You usually have  
26 other utilities. You've got storm drain, gas, power, cable TV, they're all strung out all  
over the place. It makes it difficult." Tr. 424 (GLS).

1 an ACS-AN-sponsored road prism construction input of 89.7 percent. This results in a  
2 unit cost per month of \$20.32/loop-month.

3 DATED at Anchorage, Alaska, this 25th day of June, 2004.

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James S. Strandberg, Commissioner

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# Final Loop Calculation

Model Version:

ACS 7.2-G v. 1.0

Run:

ACS-Anchorage Expense Factors

Description	NID	Distribution	Concentrator	Feeder	Total
Direct Expense per year	\$ 154,535	\$ 2,120,467	\$ 639,751	\$ 1,615,996	\$ 4,530,750
General Support + Other Taxes	40,482	555,473	167,588	423,323	\$ 1,186,865
Carrier-to-Carrier	1,417	19,450	5,868	14,823	\$ 41,558
<b>Subtotal</b>	<b>\$ 196,434</b>	<b>\$ 2,695,390</b>	<b>\$ 813,207</b>	<b>\$ 2,054,142</b>	<b>\$ 5,759,173</b>
Common Support	\$ 36,129	\$ 495,748	\$ 149,568	\$ 377,807	\$ 1,059,252
<b>Subtotal</b>	<b>\$ 232,563</b>	<b>\$ 3,191,138</b>	<b>\$ 962,775</b>	<b>\$ 2,431,948</b>	<b>\$ 6,818,425</b>
Uncollectible Wholesale	0.43%	0.43%	0.43%	0.43%	0.43%
<b>Total Annual Cost</b>	<b>\$ 233,576</b>	<b>\$ 3,205,033</b>	<b>\$ 966,967</b>	<b>\$ 2,442,538</b>	<b>\$ 6,848,113</b>
Physical Loops	28,082	28,082	28,082	28,082	28,082
<b>Unit Cost per Month</b>	<b>\$ 0.69</b>	<b>\$ 9.51</b>	<b>\$ 2.87</b>	<b>\$ 7.25</b>	<b>\$ 20.32</b>

3.14