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Director  
Federal Regulatory Relations

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**PACIFIC**  **TELESIS**  
Group-Washington

EX PARTE OR LATE FILED

ORIGINAL  
FILE  
RECEIVED  
DEC 28 1992

December 28, 1992

**EX PARTE**

Gregory J. Vogt, Chief  
Tariff Division  
Common Carrier Bureau  
Federal Communications Commission  
Mail Stop 1600C  
1919 M Street, N.W., Room 518  
Washington, D.C. 20554

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Dear Mr. Vogt:

Re: *CC Docket No. 92-91 / Open Network Architecture Tariffs of  
Bell Operating Companies*

I am responding on behalf of Pacific Bell to your letter regarding corrections to ONA filed data in the above-referenced proceeding.

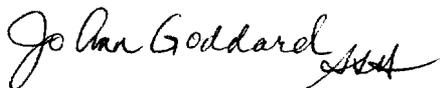
In regard to Question 1: We have reviewed our November 1, 1991 ONA tariff filing (Transmittal Letter No. 1553) and no data corrections other than those already submitted to the Bureau (in Transmittal Letter No. 1567 dated January 27, 1992, attached) are warranted.

In regard to Question 2: We have reviewed the information in Appendices 21 through 24 of Arthur Andersen's report and no corrections or revisions to the data are appropriate.

Two copies of this notice were submitted to the Secretary of the FCC in accordance with Section 1.1206(a)(1) of the Commission's Rules for ex parte communications.

Please stamp and return the provided copy to confirm your receipt. Please contact me should you have any questions or require additional information concerning this matter.

Sincerely,



Attachment

cc: Matt Cambra, Arthur Anderson  
Jim Britt, Bellcore  
Stan Wiggins, FCC  
Tom Quaile, FCC

No. of Copies rec'd  
List A B C D E

0+1

January 27, 1992

Transmittal No. 1567

Secretary  
Federal Communications Commission  
Washington, D.C. 20554

Attention: Common Carrier Bureau

The accompanying tariff material, issued by Pacific Bell, bearing Tariff F.C.C. No. 128, effective February 1, 1992, is sent to you for filing in compliance with the Communications Act of 1934, as amended. This filing consists of tariff pages as indicated on the following check sheet:

Tariff F.C.C. No. 128                      391st Revised Page 1

This filing is issued under authority of Special Permission No. 92-75 of the Federal Communications Commission to make tariff and workpaper corrections to Pacific's ONA compliance filing, originally filed with Transmittal No. 1553 issued November 1, 1991. Transmittal No. 1553 has been previously amended by Transmittal No. 1559 on December 16, 1991 and Transmittal No. 1565 on January 14, 1992. This filing:

- Changes four proposed BSE rates as a result of cost support corrections;
- Clarifies certain ONA tariff material as suggested by the Common Carrier Bureau's Tariff Division;
- Includes 4th Revised Page 236 inadvertently omitted from the original submission;
- Contains corrections to other textual and typographical errors.

In accordance with Section 61.32(b), the original Transmittal Letter, the Federal Communications Commission Form 155 and the filing fee have been submitted to a courier service for delivery to the Treasury Department lockbox located at the Mellon Bank in Pittsburgh, Pennsylvania.

RECEIVED

DEC 28 1991

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Acknowledgment and date of receipt of this filing are requested. A duplicate letter of transmittal is attached for this purpose.

All written correspondence in connection with this filing should be addressed to me at the above address. All other inquiries may be directed to F. L. Hopwood on (202) 383-6429.

CAF M J Miller

Enclosures

Duplicate Transmittal Letter  
Tariff Pages  
Revised Description Justification Workpapers  
Revised TRP Charts & Diskette

Copy of Letter and Tariff Pages concurrently delivered to:  
Chief, Tariff Review Branch (Public Reference Copy)  
Downtown Copy Center

## ACCESS SERVICE

## CHECK SHEET

Title Page and Pages 1 to 640 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below and Supplements No. 3, 4, 5, 7, 8, 9, 10, 18, 21, 23, 25, 26, 27, 28, 29, 30, 31, 32, 37, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51D and 52N contain all changes from the original tariff that are in effect on the date hereof.

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
Title	4th	12	7th	25.1	Original
1	391st*	12.1	1st	26	3rd
1.1	50th	13	3rd	27	3rd
1.2	83rd	14	4th	28	1st
1.3	63rd*	15	6th	29	3rd
1.4	73rd	15.1	2nd	30	2nd
1.5	135th*	16	17th	31	1st
1.6	104th	16.1	Original	32	1st
1.7	70th	16.2	Original	33	3rd
1.8	15th	16.3	1st*	34	10th
1.9	20th	16.4	1st*	34.1	7th
1.10	57th	17	13th	34.2	4th
1.11	65th	17.1	3rd	34.3	6th
1.12	6th	17.2	3rd	34.4	14th
2	5th	17.3	18th	34.5	9th
3	9th	17.3.1	1st	35	6th
4	8th	17.4	2nd	35.1	2nd
5	12th	18	2nd	35.2	1st
6	19th	18.1	1st	36	7th
6.1	4th	19	1st	36.1	4th
7	12th	20	2nd	36.2	4th
7.1	Original	21	6th	36.3	1st
8	7th	22	2nd	37	6th
9	27th	22.1	Original	37.1	4th
10	23rd	23	2nd	37.2	5th
11	27th	24	5th	37.3	8th
11.1	10th	25	4th	37.4	6th
				37.5	Original

\* New or Revised Page

Issued: January 27, 1992

Effective: February 1, 1992

M. J. Miller, Regulatory Vice President  
140 New Montgomery Street, San Francisco, California 94105

## ACCESS SERVICE

## CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
138	2nd	157.12	6th	180	17th
139	11th*	157.13	Original	180.1	3rd
139.1	Original	158	15th	181	4th
139.2	Original*	158.1	Original	181.1	13th
139.3	Original*	159	5th	181.2	4th
140	11th	160	10th	181.2.1	1st
140.1	8th	160.1	2nd	181.2.2	1st
140.2	4th	160.2	3rd	181.2.3	1st
140.3	3rd	161	7th	181.3	6th
140.4	10th	161.1	2nd	181.4	5th
140.5	2nd	161.2	3rd	181.5	Original
141	10th	162	17th	181.6	Original
142	4th	163	22nd	181.7	Original
143	1st	163.1	1st	181.8	Original
144	1st	164	11th	181.9	Original
145	1st	164.1	3rd	181.10	Original
146	1st	165	5th	181.11	Original
147	1st	166	9th	181.12	Original
148	1st	167	4th	181.13	Original
149	1st	168	5th	181.14	Original
150	1st	168.1	1st	181.15	Original
151	1st	169	5th	181.16	Original
152	1st	170	6th	181.17	Original
152	1st	171	10th	181.18	Original
153	1st	171.1	2nd	181.19	Original
154	1st	172	5th	181.20	Original
155	10th	172.1	Original	181.21	Original
156	6th	173	4th	181.22	Original
157	5th	174	5th	181.23	Original
157.1	6th	174.1	3rd	181.24	Original
157.2	2nd	175	6th	181.25	Original
157.3	4th	175.1	5th	181.26	Original
157.3.1	4th	176	4th	181.27	Original
157.4	2nd	176.1	3rd	181.28	Original
157.5	2nd	177	5th	182	9th
157.6	1st	178	5th	182.1	2nd
157.7	1st	179	7th	183	5th
157.8	2nd	179.1	12th	184	8th
157.9	2nd	179.2	4th	185	6th
157.10	4th	179.3	5th	186	5th
157.11	4th				

\* New or Revised Page

Issued: January 27, 1992

Effective: February 1, 1992

## ACCESS SERVICE

## CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
222	10th	240.7	Original	263.1	8th
222.1	15th	240.8	2nd	263.1.1	2nd
223	11th	241	9th	263.2	8th
223.1	11th	242	6th*	263.2.1	2nd
224	17th	242.1	2nd	263.3	5th
224.1	18th	242.2	2nd	263.4	3rd
225	15th	243	7th	263.5	3rd
226	2nd	244	4th	264	5th
227	2nd	245	5th	265	5th
227.1	Original	245.1	7th	265.1	2nd
228	34th	246	6th	266	5th
229	29th	247	6th	267	3rd
229.1	9th	248	4th	268	6th
230	22nd	249	4th	269	4th
230.1	14th	249.1	6th	270	6th
231	4th	250	3rd	271	4th
232	4th	251	11th	272	6th
233	6th	252	5th	272.1	3rd
233.1	6th	253	5th	273	9th
234	15th	254	6th	274	7th
235	11th	255	6th	274.1	6th
236	4th*	255.1	7th	274.2	1st
237	17th	256	3rd	274.3	1st
238	6th	257	4th	274.4	3rd
239	15th	258	11th	275	11th
240	17th	258.1	2nd	276	7th
240.1	40th*	259	9th	276.1	2nd
240.2	1st	259.1	6th	277	6th
240.3	Original	260	3rd	278	14th
240.4	Original	261	6th	278.1	7th
240.5	1st*	262	13th	278.2	5th
240.6	Original	263	5th	278.3	Original
				279	4th

\* New or Revised Page

Issued: January 27, 1992

Effective: February 1, 1992

Regulatory Vice President  
140 New Montgomery Street, San Francisco, California 94105

PACIFIC BELL

TARIFF F.C.C. NO. 128  
1st Revised Page 16.3 x  
Cancels Original Page 16.3

ACCESS SERVICE

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No. 92-75 of the Federal Communications Commission.  
Certain regulations previously found on this page can now be found on  
Page 139.2 and 139.3.

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Issued: January 27, 1992

Effective: February 1, 1992

Regulatory Vice President  
140 New Montgomery Street, San Francisco, California 94105

PACIFIC BELL

TARIFF F.C.C. NO. 128  
1st Revised Page 16.4 x  
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Certain regulations previously found on this page can now be found on Page 242.

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Issued: January 27, 1992

Effective: February 1, 1992

Regulatory Vice President  
140 New Montgomery Street, San Francisco, California 94105



ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Switched Access Service Arrangements and Manner of Provision  
(Cont'd)

(A) Switched Access Service Arrangements (Cont'd)

PACIFIC BELL/UNIFORM ONA SERVICE NAME CROSS REFERENCE

Mx

The following is a list of Pacific Bell's Open Network Architecture (ONA) Basic Service Elements (BSEs) which provides a mapping from the feature name utilized in this tariff to the industry standard feature name.

<u>PACIFIC BELL</u>	<u>UNIFORM ONA SERVICE NAME</u>
Automatic Number Identification	Calling Billing Number Delivery - FGD Protocol
Hunt Group Arrangement	Multiline Hunt Group
Hunt Group - C.O. Announcement	Multiline Hunt Group - C.O. Announcements
Uniform Call Distribution (UCD) - Arrangement	Multiline Hunt Group - Uniform Call Distribution Line Hunting
Uniform Call Distribution With Queuing	Multiline Hunt Group - UCD With Queuing
Hunt Group Overflow	Multiline Hunt Group - Overflow
Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement	Multiline Hunt Group - Individual Access to Each Port in Hunt Group
Three Way Call Transfer	Three Way Call Transfer

Mx

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Issued: January 27, 1992

Effective: February 1, 1992

Regulatory Vice President  
140 New Montgomery Street, San Francisco, California 94105

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Switched Access Service Arrangements and Manner of Provision  
(Cont'd)

(A) Switched Access Service Arrangements (Cont'd)

PACIFIC BELL/UNIFORM ONA SERVICE NAME CROSS REFERENCE

Mx

The following is a list of Pacific Bell's Open Network Architecture (ONA) Basic Service Elements (BSEs) which provides a mapping from the feature name utilized in this tariff to the industry standard feature name.

<u>PACIFIC BELL</u>	<u>UNIFORM ONA SERVICE NAME</u>
Public Packet Switching Fast Select Acceptance	Fast Select Acceptance - Packet
Fast Select - Initiate	Fast Select Request - Packed
Closed User Groups	Closed User Group - Packet
Hunt Group - Internal	Hunt Groups - Packet
Data Termination Equipment Backup	Call Redirection - Packet
Call Denial On Line or Hunt Group	(To be determined)
Service Code Denial On Line or Hunt Group	(To be determined)

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Certain regulations on this page formerly appeared on Page 16.3.

Issued: January 27, 1992

Effective: February 1, 1992

Regulatory Vice President  
140 New Montgomery Street, San Francisco, California 94105

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.3 Local Switching for Feature Groups (Cont'd)

Cx

(D) Local Transport Termination Nonchargeable Options (Cont'd)

Cx

(1) Line-Side Terminations (For FGA) (Cont'd)

FID

Terminating Operation

- Dial Pulse with Loop Start	NC +++N
- Dial Pulse with Ground Start	NC +++P
- DTMF with Loop Start	NC +++R
- DTMF with Ground Start	NC +++S

Originating Operation

- Loop Start	NC +++U
- Ground Start	NC +++V

(For FGB, FGC, and FGD)

Standard Trunk  
 for Originating,  
 Terminating or Two-  
 Way operation  
 (available with FGB,  
 FGC and FGD)

TTC SO  
 TTC ST  
 TTC TY

Rotary-Dial Station  
 Signaling Trunk  
 (available with FGB)

TTC RD

Operator Trunks - MOS,  
 Coin, Non-Coin or Combined  
 Coin and Non-Coin  
 (available with FGC)

TTC CO  
 TTC NC  
 TTC CC

Operator Trunks - MOS  
 Coin or Combined Coin  
 and Non-Coin  
 (available with FGD)

TTC CO  
 TTC CC

Operator Trunks - EAOSS  
 (available with FGD)

TTC FF

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 No. 92-75 of the Federal Communications Commission.

Issued: January 27, 1992

Effective: February 1, 1992

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.5 Local Switching for Access Arrangements (Cont'd)

(B) Common Switching Optional Features Used with Access Arrangements

	<u>FID/USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
Call Denial on line or Hunt Group (Available with ALA)				
- Per Line	CAD/ BEDCA	\$0.50	None	Sx
- Non-Premium Rate		0.23	None	
Service Code Denial on Line (Available with ALA)				
- Per Line	SCD/ SVCCD	0.50	None	
- Non-Premium Rate		0.23	None	
Hunt Group Arrangement (Available with ALA)				
- Per Line	HML,HTG/ MLHTG	0.20	None	Sx Tx
- Non-Premium Rate		0.09	None	Sx
Hunt Group Arrangement for Use with WATS Access Lines (Available with ATA-10XXX)				
- Per WATS Access Line Group	HML,HTG	None	None	Sx Tx Sx
Uniform Call Distribution (Available with ALA)				
- Per Line	UCD/CDUHT	2.75	None	Sx Tx
- Non-Premium Rate		1.24	None	Sx

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Issued: January 27, 1992

Effective: February 1, 1992

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 140 New Montgomery Street, San Francisco, California 94105

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rates and Charges (Cont'd)

6.8.5 Local Switching for Access Arrangements (Cont'd)

(B) Common Switching Optional Features Used with Access Arrangements (Cont'd)

	<u>FID/USOC</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>	
Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement for Use with WATS Access Lines (Available with ATA-10XXX) - Per WATS Access Line	NHN	None	None	
LATA-Wide Terminating Access (Available with ATA-950) -Per Transmission Path or Transmission Path Group	LWTA			
Hunt Group - Overflow (Available with ALA) - Per Line - Non-Premium Rate	MLHOF	None None	None None	
Uniform Call Distribution with Queuing (Available with ALA) - Per Line - Non-Premium Rate	CDUQG	\$ 0.70 0.32	C C	None None
Hunt Group - C.O Announcement (Available with ALA) - Per Arrangement - Non-Premium Rate	MLHCO	\$109.00 49.05	C C	None None
Three Way Call Transfer (Available with ALA) - Per Line - Non-Premium Rate	TRC3W	0.05 0.02		None None

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Issued: January 27, 1992

Effective: February 1, 1992

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Service Types (Cont'd)

Each type of Special Access Service is identified in 7.2 following. Such identification is not intended to limit a customer's use of the service nor to imply that the service is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a service that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

PACIFIC BELL/UNIFORM ONA SERVICE NAME CROSS REFERENCE

The following is a list of Pacific Bell's Open Network Architecture (ONA) Basic Service Elements (BSEs) which provides a mapping from the feature name utilized in this tariff to the industry standard feature name. (Cont'd)

<u>PACIFIC BELL</u>	<u>UNIFORM ONA SERVICE NAME</u>
Special Access Bridging	Bridging
Conditioning	Conditioning
Secondary Channel	Secondary Channel Capability
Automatic Loop Transfer	Automatic Protection Switching
Customer Network Reconfiguration*	Network Reconfiguration
Access to Clear Channel Transmission	Access to Clear Channel Transmission

Mx

Mx

\* Available as a Network Channel Interface described in Pacific Bell document PUB L 780077-PB.

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Issued: January 27, 1992

Effective: February 1, 1992

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## DESCRIPTION AND JUSTIFICATION

Pacific Bell has identified three errors in the cost support which accompanied Transmittal Letter No. 1553 on November 1, 1991. Each error is identified below.

### Multiline Hunt Group - C.O. Announcement:

- 1) A typographical error was made concerning the LAESS unit investment. Pacific Bell's unit investment for this BSE should be \$2,736.89.
- 2) The original workpapers contained an implicit assumption that this BSE could be provisioned using shared DMS100 facilities. However, Pacific Bell has now learned that this BSE can only be provisioned on dedicated facilities. The filed unit investment should, therefore, be changed to \$1,270.82.

The net effect of the above two corrections results in an increase of \$17.00 in the proposed premium BSE rate. Pacific Bell's nonpremium BSE rate was adjusted by applying 45% to the premium BSE rate.

### UCD with Queuing:

- 1) The unit investment level for this BSE was incorrect on the original submission; the correct SCIS unit investment levels should be \$12.27. This modification results in a \$.25 per month reduction in Pacific Bell's proposed BSE rate. The nonpremium rate was established by multiplying the premium rate by 45%.

The above corrections and subsequent calculations resulting from the corrections are shown on the accompanying workpapers as underlined values.

The unit investment revisions require modifications to TRP Charts Ratio, Unit and the Net Revenue Test. The corrected charts are included and labelled "Corrections to Filing". A revised TRP diskette is also included.

Switched Access BSE Workpapers

122 BSE Cost Development

123  
124  
125

126 Percent Forecasted Growth for Switched Access by Equipment Type (DMS, 1A, 5E)

127

	DMS	1A	5E	SOURCE
128				
129				
130 Switched Access	36.86%	7.84%	55.30%	11/90 Construction Budget View

131  
132  
133

134 Incremental Cost Product Investment by Switch Type

135

	DMS	1A	5E	
136				
137				
138 Auto Number Id per Busy Hour Call	\$0.17	\$18.89	\$2.34	SCIS
139 Hunt Group Arrangement per Line	\$10.35	\$1.76	\$2.55	SCIS
140 CO Announcement per Group	<u>\$1,270.82</u>	<u>\$2,736.89</u>	\$4,588.34	SCIS
141 Nonhunting Number per Line	\$0.00	\$0.00	\$0.00	SCIS
142 Hunt Group Overflow per Line	\$0.00	\$0.00	\$0.00	SCIS
143 UCD per Line	\$185.53	\$12.41	\$21.94	SCIS
144 UCD with Queuing per Line	\$25.26	\$59.44	<u>\$12.27</u>	SCIS
145 Three Way Call Transfer per Line	\$2.45	\$3.44	\$0.91	SCIS
146 Call Denial per Line	\$26.93	\$40.51	\$4.31	SCIS
147 Service Code Denial per Line	\$26.93	\$40.51	\$4.31	SCIS

148  
149  
150  
151

152 Incremental Cost Product Investment by Analog and Digital

153

	Analog Invest.	Digital Invest.	Total Invest.	
154				
155				
156	(1A)	DMS & 5E)		
157 Auto Number Id per Busy Hour Call	\$1.48	\$1.36	\$2.84	(Line 138) * (Line 130)
158 Hunt Group Arrangement per Line	\$0.14	\$5.23	\$5.36	(Line 139) * (Line 130)
159 CO Announcement per Group	<u>\$214.57</u>	<u>\$3,005.78</u>	<u>\$3,220.35</u>	(Line 140) * (Line 130)
160 Nonhunting Number per Line	\$0.00	\$0.00	\$0.00	(Line 141) * (Line 130)
161 Hunt Group Overflow per Line	\$0.00	\$0.00	\$0.00	(Line 142) * (Line 130)
162 UCD per Line	\$0.97	\$80.52	\$81.49	(Line 143) * (Line 130)
163 UCD with Queuing per Line	\$4.66	<u>\$16.10</u>	<u>\$20.76</u>	(Line 144) * (Line 130)
164 Three Way Call Transfer per Line	\$0.27	\$1.41	\$1.68	(Line 145) * (Line 130)
165 Call Denial per Line	\$3.18	\$12.31	\$15.49	(Line 146) * (Line 130)
166 Service Code Denial per Line	\$3.18	\$12.31	\$15.49	(Line 147) * (Line 130)

167  
168  
169

Switched Access BSE Workpapers

170	Calculation of Rates for BSEs				SOURCE
171					
172					
173	Costs	Direct	Direct +		
174			Overheads		
175	Auto Number Id per Busy Hour Call	\$0.8460	\$1.0682		Page 4.d.8 (Lines 36 and 41)
176					
177	Ratio of Total Messages to	2,600			Engineering Study
178	Busy Hour Messages				
179					
180	Auto Number Id per Message	\$0.00033	\$0.00041	per Message	(Line 175) / (Line 177)
181	Hunt Group Arrangement per Line	\$0.1445	\$0.1819	per Month	Page 4.d.9 (Lines 36 and 41) / 12
182	CO Announcement per Group	<u>\$86.2137</u>	<u>\$108.5497</u>	per Month	Page 4.d.10 (Lines 36 and 41) / 12
183	Nonhunting Number per Line	\$0.0000	\$0.0000	per Month	No CO Investment
184	Hunt Group Overflow per Line	\$0.0000	\$0.0000	per Month	No CO Investment
185	UCD per Line	\$2.2005	\$2.7698	per Month	Page 4.d.12 (Lines 36 and 41) / 12
186	UCD with Queuing per Line	<u>\$0.5418</u>	<u>\$0.6828</u>	per Month	Page 4.d.11 (Lines 36 and 41) / 12
187	Three Way Call Transfer per Line	\$0.0442	\$0.0557	per Month	Page 4.d.14 (Lines 36 and 41) / 12
188	Call Denial per Line	\$0.4055	\$0.5110	per Month	Page 4.d.7 (Lines 36 and 41) / 12
189	Service Code Denial per Line	\$0.4055	\$0.5110	per Month	Page 4.d.13 (Lines 36 and 41) / 12
190					
191					
192					
193	Proposed Prices for BSEs	Premium	Non-Premium		
194					
195	Auto Number Id per Message	\$0.00041	NA	per Message	
196	Hunt Group Arrangement per Line	\$0.20	\$0.09	per Month	
197	CO Announcement per Group	<u>\$109.00</u>	<u>\$49.05</u>	per Month	
198	Nonhunting Number per Line	\$0.00	\$0.00	per Month	
199	Hunt Group Overflow per Line	\$0.00	\$0.00	per Month	
200	UCD per Line	\$2.75	\$1.24	per Month	
201	UCD with Queuing per Line	<u>\$0.70</u>	<u>\$0.32</u>	per Month	
202	Three Way Call Transfer per Line	\$0.05	\$0.02	per Month	
203	Call Denial per Line	\$0.50	\$0.23	per Month	
204	Service Code Denial per Line	\$0.50	\$0.23	per Month	
205					
206	Note: Non-Premium rates = Premium rates * 0.45 rounded to the nearest cent.				

Switched Access BSE Workpapers - CO Announcement Cost Calculations

1	Total Expense Factors	Acct. 221100	Acct. 221210	SOURCE
2		Analog	Digital	
3	Cost of Money	0.0741	0.0967	See Section 4.b.4
4	State & Fed Taxes	0.0272	0.0355	See Section 4.b.4
5	Depreciation	0.0932	0.0794	See Section 4.b.4
6	Repair and Maintenance - Direct	0.0514	0.0801	See Section 4.b.4
7	Repair and Maintenance - Fixed	0.0044	0.0030	See Section 4.b.4
8				
9				
10	Administrative Expense Factors (applied to all other expenses)			
11				
12		Interstate		
13		Switched		
14				
15	Admin Factor	6.85%		See Section 4.b.4
16	Other Factor	4.34%		See Section 4.b.4
17	Overhead Factor	27.46%		See Section 4.b.4
18				
19		Analog	Digital	Total
20		Invest.	Invest.	Invest.
21				
22	CO Announcement per Group	<u>\$214.57</u>	<u>\$3,005.78</u>	<u>\$3,220.35</u> Page 4.d.4 (Line 159)
23				
24		Analog	Digital	Total
25		Expenses	Expenses	Expenses
26				
27	Depreciation	<u>\$19,9956</u>	<u>\$238,5677</u>	<u>\$258,5632</u> (Line 5) * (Line 22)
28	Cost of Money	<u>\$15,8935</u>	<u>\$290,6927</u>	<u>\$306,5862</u> (Line 3) * (Line 22)
29	State & Fed Taxes	<u>\$5,8403</u>	<u>\$106,7308</u>	<u>\$112,5711</u> (Line 4) * (Line 22)
30	Repair and Maintenance - Direct	<u>\$11,0203</u>	<u>\$240,6589</u>	<u>\$251,6792</u> (Line 6) * (Line 22)
31	Repair and Maintenance - Fixed	<u>\$0,9429</u>	<u>\$9,1424</u>	<u>\$10,0852</u> (Line 7) * (Line 22)
32	Subtotal of Expenses	<u>\$53,6925</u>	<u>\$885,7925</u>	<u>\$939,4850</u> Sum of (Line 27) to (Line 31)
33				
34	Administration	<u>\$3,6800</u>	<u>\$60,7104</u>	<u>\$64,3904</u> (Line 15) * (Line 32)
35	Other	<u>\$2,3303</u>	<u>\$38,4434</u>	<u>\$40,7737</u> (Line 16) * (Line 32)
36	Total Direct Recurring Costs	<u>\$58,7599</u>	<u>\$975,8039</u>	<u>\$1,034,5638</u> Sum of (Line 32) to (Line 35) - (Line 31)
37				
38				
39	Overhead Loadings	<u>\$15,6848</u>	<u>\$252,3474</u>	<u>\$268,0322</u> ((Line 17) * (Line 32)) + (Line 31)
40				
41	Total Direct and Indirect Unit Costs	<u>\$74,4447</u>	<u>\$1,228,1513</u>	<u>\$1,302,5960</u> (Line 36) + (Line 39)
42				
43				
44	UNIT INVESTMENT			
45				
46	COE Switching	<u>\$214,5722</u>	<u>\$3,005,7763</u>	<u>\$3,220,3484</u> (Line 22)
47				
48	Total Unit Investment	<u>\$214,5722</u>	<u>\$3,005,7763</u>	<u>\$3,220,3484</u> (Line 46)

Switched Access BSE Workpapers - Uniform Call Distribution with Queuing Cost Calculations

1	Total Expense Factors	Acct. 221100	Acct. 221210	SOURCE
2		Analog	Digital	
3	Cost of Money	0.0741	0.0967	See Section 4.b.4
4	State & Fed Taxes	0.0272	0.0355	See Section 4.b.4
5	Depreciation	0.0932	0.0794	See Section 4.b.4
6	Repair and Maintenance - Direct	0.0514	0.0801	See Section 4.b.4
7	Repair and Maintenance - Fixed	0.0044	0.0030	See Section 4.b.4
8				
9				
10	Administrative Expense Factors (applied to all other expenses)			
11				
12		Interstate		
13		Switched		
14				
15	Admin Factor	6.85%		See Section 4.b.4
16	Other Factor	4.34%		See Section 4.b.4
17	Overhead Factor	27.46%		See Section 4.b.4
18				
19		Analog	Digital	Total
20		Invest.	Invest.	Invest.
21				
22	UCD with Queuing per Line	\$4.66	<u>\$16.10</u>	<u>\$20.76</u> Page 4.d.4 (Line 163)
23				
24		Analog	Digital	Total
25		Expenses	Expenses	Expenses
26				
27	Depreciation	\$0.4343	<u>\$1.2775</u>	<u>\$1.7118</u> (Line 5) * (Line 22)
28	Cost of Money	\$0.3452	<u>\$1.5567</u>	<u>\$1.9019</u> (Line 3) * (Line 22)
29	State & Fed Taxes	\$0.1268	<u>\$0.5716</u>	<u>\$0.6984</u> (Line 4) * (Line 22)
30	Repair and Maintenance - Direct	\$0.2393	<u>\$1.2887</u>	<u>\$1.5281</u> (Line 6) * (Line 22)
31	Repair and Maintenance - Fixed	\$0.0205	<u>\$0.0490</u>	<u>\$0.0694</u> (Line 7) * (Line 22)
32	Subtotal of Expenses	\$1.1661	<u>\$4.7435</u>	<u>\$5.9096</u> Sum of (Line 27) to (Line 31)
33				
34	Administration	\$0.0799	<u>\$0.3251</u>	<u>\$0.4050</u> (Line 15) * (Line 32)
35	Other	\$0.0506	<u>\$0.2059</u>	<u>\$0.2565</u> (Line 16) * (Line 32)
36	Total Direct Recurring Costs	\$1.2762	<u>\$5.2255</u>	<u>\$6.5017</u> Sum of (Line 32) to (Line 35) - (Line 31)
37				
38				
39	Overhead Loadings	\$0.3406	<u>\$1.3513</u>	<u>\$1.6920</u> ((Line 17) * (Line 32)) + (Line 31)
40				
41	Total Direct and Indirect Unit Costs	\$1.6168	<u>\$6.5768</u>	<u>\$8.1936</u> (Line 36) + (Line 39)
42				
43				
44	UNIT INVESTMENT			
45				
46	COE Switching	\$4.6601	<u>\$16.0961</u>	<u>\$20.7562</u> (Line 22)
47				
48	Total Unit Investment	\$4.6601	<u>\$16.0961</u>	<u>\$20.7562</u> (Line 46)

Chart Ratio

Ratio of Direct Unit Cost to Unit Investment and Direct Unit Cost to Rate  
For Lineside and Trunkside BSEs

Group	Y Multiline Hunt Group CO Announcement	Z Multiline Hunt Group Individual Access to Each Port	AA Multiline Hunt Group Overflow	AB Multiline Hunt Group Preferred
<b>Ratios</b>				
1 Direct Annual Recurring Costs (DC)	\$1,034.5600	\$0.0000	\$0.0000	
2 Total Unit Investment (DI)	\$3,220.3500	\$0.0000	\$0.0000	
3 Annual Rate	\$1,308.0000	\$0.0000	\$0.0000	
4 Ratio of DC/DI	0.3213	NA	NA	
5 Ratio of DC/Rate	0.7910	NA	NA	

Notes:

- Direct Annual Recurring Costs from appropriate column in Chart UNIT, Line 7.
- Total Unit Investment from appropriate column in Chart UNIT, Line 15.

Chart Ratio

Ratio of Direct Unit Cost to Unit Investment and Direct Unit Cost to Rate  
For Lineside and Trunkside BSBs

	AC Multiline Hunt Group UCD with Queing	AD Multiline Hunt Group Uniform Call Dist Line Hunting	AE Network Reconfiguration	AF Reverse Charge Acceptance
Ratios				
1 Direct Annual Recurring Costs (DC)	\$6.5017	\$26.4064	\$480.37	
2 Total Unit Investment (DI)	\$20.7562	\$81.4921	\$1,322.82	
3 Annual Rate	\$8.4000	\$33.0000	\$574.03	
4 Ratio of DC/DI	0.3132	0.3240	0.3631	
5 Ratio of DC/Rate	0.7740	0.8002	0.8368	

Notes:

- Direct Annual Recurring Costs from appropriate column in Chart UNIT, Line 7.
- Total Unit Investment from appropriate column in Chart UNIT, Line 15.

Chart UNIT

Direct Unit Investment and Direct Unit Costs  
For Unbundled Lineside and Trunkside BSEs

	Y Multiline Hunt Group CO Announcement Projected 12 months	Z Multiline Hunt Group Individual Access to Each Port Projected 12 months	AA Multiline Hunt Group Overflow Projected 12 months	AB Multiline Hunt Group Preferred Projected 12 months
<b>DIRECT UNIT COSTS</b>				
1 Depreciation	\$258.56	\$0.0000	\$0.0000	
2 Return on Investment	\$306.59	\$0.0000	\$0.0000	
3 Taxes	\$112.57	\$0.0000	\$0.0000	
4 Maintenance	\$251.68	\$0.0000	\$0.0000	
5 Administration	\$64.39	\$0.0000	\$0.0000	
6 Other	\$40.77	\$0.0000	\$0.0000	
7 Total Direct Recurring Costs	\$1,034.56	\$0.0000	\$0.0000	
<b>INDIRECT UNIT COSTS</b>				
8 Overhead Loadings	\$268.03	\$0.0000	\$0.0000	
9 Total Direct and Indirect Unit Costs	\$1,302.60	\$0.0000	\$0.0000	
<b>UNIT INVESTMENT</b>				
10 COB Switching	\$3,220.35	\$0.0000	\$0.0000	
11 COB Transmission				
12 Cable and Wire				
13 Information				
14 Amortizable Assets				
15 Total Unit Investment	\$3,220.35	\$0.0000	\$0.0000	

Notes: Line 3 "taxes" should  
include only federal, state,  
and local income taxes.  
Include all other taxes on  
line 6.

Chart UNIT

Direct Unit Investment and Direct Unit Costs  
For Unbundled Lineside and Trunkside BSEs

	AC Multiline Hunt Group UCD with Queing Projected 12 months	AD Multiline Hunt Group Uniform Call Dist Line Hunting Projected 12 months	AB Network Reconfiguration Projected 12 months	AP Reverse Charge Acceptance Projected 12 months
<b>DIRECT UNIT COSTS</b>				
1 Depreciation	\$1.7118	\$6.4815	\$189.68	
2 Return on Investment	\$1.9019	\$7.8592	\$92.03	
3 Taxes	\$0.6984	\$2.8856	\$33.90	
4 Maintenance	\$1.5281	\$6.4968	\$25.57	
5 Administration	\$0.4050	\$1.6432	\$15.17	
6 Other	\$0.2565	\$1.0402	\$124.03	
7 Total Direct Recurring Costs	\$6.5017	\$26.4064	\$480.37	
<b>INDIRECT UNIT COSTS</b>				
8 Overhead Loadings	\$1.6920	\$6.8311	\$87.29	
9 Total Direct and Indirect Unit Costs	\$8.1936	\$33.2375	\$567.66	
<b>UNIT INVESTMENT</b>				
10 COE Switching	\$20.7562	\$81.4921	\$1,322.82	
11 COE Transmission				
12 Cable and Wire				
13 Information				
14 Amortizable Assets				
15 Total Unit Investment	\$20.7562	\$81.4921	\$1,322.82	

Notes: Line 3 "taxes" should  
include only federal, state,  
and local income taxes.  
Include all other taxes on  
line 6.

Chart NETREV  
(Revised)  
NET REVENUE TEST

BSAs AND BSEs	A DEMAND	B REVENUES	C EXPENSES	D NET REVENUE
1 LS2	21,772,000,000	\$211,188,400	\$263,073,100	NA
2 LS1	5,579,000,000	\$51,884,700	NA	NA
3 Non-Premium	0	\$0	NA	NA
4 LS2 Trunkside BSA	21,772,000,000	\$209,185,376	\$260,646,072	NA
5 LS1 Trunkside BSA	5,388,000,000	\$49,698,912	NA	NA
6 Non-Premium Trunkside BSA	0	\$0	NA	NA
7 LS1 Lineside BSA	191,000,000	\$1,761,784	NA	NA
8 Non-Premium Lineside BSA	0	\$0	NA	NA
 PREMIUM BSES				
9 Alternate Routing				NA
10 Answer Supervision With a Line Side Interface				NA
11 Automatic Protection Switching				NA
12 Bridging				NA
13 Call Denial	3.488	\$20,928	\$16,973	NA
14 Call Detail Recording Reports				NA
15 Called Directory Number Delivery via 900NXX				NA
16 Called Directory Number Delivery via DID				NA
17 Called Directory Number Delivery via ICLID				NA
18 Calling Billing Number Delivery	5,765,737,000	\$2,363,952	\$1,876,073	NA
19 Carrier Selection on Reverse Charge Multiline Hunt Group				NA
20 Conditioning				NA
21 DID Trunk Queing				NA
22 Fast Select Acceptance				NA
23 Faster Signalling on DID				NA
24 Flexible ANI Information Digits				NA
25 Line Monitor Service				NA
26 Make Busy Key				NA
27 Message Desk (SDMI)				NA
28 Message Desk (SMDI) - Expanded				NA
29 Message Waiting Indicator - Activation (Audible)				NA
30 Message Waiting Indicator - Expanded				NA
31 Multiline Hunt Group	4,853	\$11,647	\$8,416	NA
32 Multiline Hunt Group - Circular				NA
33 Multiline Hunt Group - C.O. Announcement	1	\$1,308	\$1,035	NA
34 Multiline Hunt Group - Individual Access to Each Po	434	\$0	\$0	NA
35 Multiline Hunt Group - Overflow	0	\$0	\$0	NA
36 Multiline Hunt Group - Preferred				NA
37 Multiline Hunt Group - UCD with queing	24	\$202	\$156	NA
38 Multiline Hunt Group - Uniform Call Distribution Li	110	\$3,630	\$2,905	NA