

ORIGINAL

ATTACHMENT B

BellSouth Telecommunications, Inc.
FPSC Docket No. 990649-TP
Request for Confidential Classification
Page 1 of
7/27/00

**REQUEST FOR CONFIDENTIAL CLASSIFICATION OF BELL SOUTH'S
SUPPLEMENTAL RESPONSE TO STAFF'S SIXTH REQUEST FOR
PRODUCTION OF DOCUMENTS (POD NO. 27) FILED JULY 6, 2000 IN
FLORIDA DOCKET NO. 990649-TP**

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SER _____
OTH _____

DOCUMENT NUMBER-DATE
09060 JUL 27 8
FPSC-RECORDS/REPORTING

BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT. NO. 990649-TP

FPSC STAFF'S 6TH REQUEST FOR PRODUCTION OF DOCUMENTS

Supplemental POD NO. 27

PROPRIETARY

BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT. NO. 990649-TP

AT&T'S 2ND REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. 37

PROPRIETARY

IOF Metallic Cable

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BST Projection - (BOY)				
=====				
a =				
b =				
=====				
FP Ratio	% Fiber	% Copper	<u>HISTORICAL</u>	
	% Fiber	% Copper	% Fiber	% Copper
1981				
1982				
1983				
1984				
1985				
1986				
1987				
1988				
1989				
1990				
1991				
1992				
1993				
1994				
1995				
1996				
1997				
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005				
2006				

Development of IOF Metallic Cable Future Life Expectancy

BOY Year	% Fiber	% Copper	Survival Rate	Percent Of Pre-1998 Surviving Circuits

A	B	C = 1 - B	D	E1 + 11 = E * D

2000			63.45%	100.0%
2001			0.00%	63.4%
2002				0.0%

Future Life Expectancy: Sum(col-E)/E19991 - 0.5 =

1.1 Years

BellSouth Feeder Cable

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BOY Year	A Actual Fiber Penetration %	B Projected Fiber Penetration %	Universe 1		Universe 2		Total		I Historical Mortality Rate %	J Combined Mortality Rate %	K Embedded Equipment Surviving %
			a = b = SR(b) =	Contribution to Total Substitio Rate % Universe 1	a = b = SR(b) =	Projected Fiber Penetration %	Contribution to Total Substitio Rate % Universe 2	Projected Fiber Penetration %			
1982											
1983											
1984											
1985											
1986											
1987											
1988											
1989											
1990											
1991											
1992											
1993											
1994											
1995											
1996											
1997											
1998											
1999											
2000											100.00%
2001											92.81%
2002											84.24%
2003											74.29%
2004											63.28%
2005											51.83%
2006											40.76%
2007											30.81%
2008											22.48%
2009											15.92%
2010											11.01%
2011											7.47%
2012											5.00%
2013											3.32%
2014											2.19%
2015											1.44%
2016											0.94%
2017											0.62%
Average Remaining Life -											5.5

2

BellSouth Distribution Cable

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A	B	C	D	E	F	G	H	I	J
BOY Year	Projected Fiber Penetration %	Technological Obsolescence Rate % (due to Fiber)	Projected Wireless Penetration %	Projected Wireless Penetration % (adjusted for data growth)	Technological Obsolescence Rate % (due to Wireless)	Combined Technological Obs. Rate %	Historical Mortality Rate %	Combined Mortality Rate %	Embedded Equipment Surviving %
1998									
1999									
2000									
2001									100.00%
2002									97.96%
2003									95.43%
2004									92.23%
2005									88.13%
2006									82.85%
2007									76.11%
2008									67.05%
2009									56.65%
2010									44.58%
2011									32.42%
2012									22.49%
2013									14.98%
2014									9.56%
2015									5.90%
2016									3.55%
2017									2.10%
2018									1.24%
2019									0.73%
2020									0.42%
									Average Remaining Life = 8.4

3

Analog Circuit Eqpt

**Fiber Penetration
in the Feeder**

NOTE:

The Life estimate of Analog Ckt eqpt is based on the demise of copper in the feeder. The life curves for feeder copper are shown here (end date of 2015).

	A	B	C	D	E	F
	BOY	Projected	Technological	Historical	Combined	Embedded
	Year	Fiber	Obsolescence	Mortality	Mortality	Equipment
		Penetration	Rate	Rate	Rate	Surviving
		%	%	%	%	%
1982						
1983						
1984						
1985						
1986						
1987						
1988						
1989						
1990						
1991						
1992						
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						100.00%
2001						86.30%
2002						72.03%
2003						57.76%
2004						44.22%
2005						32.17%
2006						22.20%
2007						14.55%
2008						9.09%
2009						5.44%
2010						3.14%
2011						1.75%
2012						0.95%
2013						0.51%
2014						0.26%
2015						0.13%

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Average Remaining Life =

4.0

4

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TECHNOLOGY: ANALOG / DIGITAL CONVERSION CIRCUIT EQUIPMENT
UNITS: (CIRCUITS)

YEAR	% SURVIVING BOY	IDt) DISPLACEMENT TECHNOLOGICAL OBSOLESCENCE	IDm) DISPLACEMENT NORMAL MORTALITY	IDc) DISPLACEMENT COMBINED RATE	ISc) SURVIVAL COMBINED RATE
		NOTE 1	NOTE 2		
1993					
1994					
1995					
1996					
1997	A	B	C	D	E
1998					
1999					
2000	100.0%				0.91674
2001	91.7%				0.72746
2002	66.7%				0.52434
2003	35.0%				0.48361
2004	16.9%				0.12987
2005	2.2%				0.08601
2006	0.0%				0.08485

ARL = 2.6

* H = HISTORICAL
 * E = ESTIMATED

NOTE 1:

NOTE 2:

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TECHNOLOGY: OTHER DIGITAL CIRCUIT EQUIPMENT
 UNITS: (CIRCUITS)

1.

YEAR	BOY SURVIVORS	FIBER PENETRATION RATE	TECHNOLOGICAL OBSOLESCENCE RATE	% SURVIVING BOY	IDml DISPLACEMENT RATE	COMBINED RATE	% SURVIVING BOY	(Sm) SURVIVAL RATE
1992								
1993								
1994								
1995								
1996								
1997								
1998								
1999								
2000								
2001							100.00%	0.93384
2002							93.38%	0.92467
2003							86.35%	0.91542
2004							79.05%	0.90612
2005							71.63%	0.89670
2006							64.23%	0.88730
2007							56.99%	0.83187
2008							47.41%	0.81738
2009							38.75%	0.79138
2010							30.67%	0.76119
2011							23.34%	0.72764
2012							16.98%	0.69258
2013							11.76%	0.65788
2014							7.74%	0.62580
2015							4.84%	0.59756
2016							2.89%	0.57373
2017							1.66%	0.55408
2018							0.92%	0.53792
2019							0.49%	0.52460
2020							0.26%	0.00000
2021							0.20%	0
2022								
2023								
2024								
2025								
2026								
2027								
2028								
2029								
2030								

NOTE 1
 A B C D E F G

NOTE 1:

6.90

6

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ASYNCHRONOUS OPTICAL CIRCUIT EQUIPMENT (CIRCUITS)

YEAR	BOY SURVIVORS	% SURVIVING BOY	IDII DISPLACEMENT TECHNOLOGICAL OBSOLESCENCE	IDmI DISPLACEMENT NORMAL MORTALITY	IDcI DISPLACEMENT COMBINED RATE	ISCI SURVIVAL COMBINED RATE
			NOTE 1	NOTE 2		
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000		100.0%				0.79886
2001		79.9%				0.75713
2002		60.5%				0.71855
2003		43.5%				0.68508
2004		29.8%				0.65745
2005		19.6%				0.63530
2006		12.4%				0.61771
2007		7.7%				0.60357
2008		4.6%				0.59202
2009		0.0%				0.58218
2010						0.57357
						1.00000
						1.00000

ARL = 5.1

NOTE 1:

NOTE 2:

TECHNOLOGY: ASYNCHRONOUS OPTICAL CIRCUIT EQUIPMENT UNITS: (CIRCUITS)

ASYNCHRONOUS OPTICAL (1999 ANALYSIS) (BOY) Q	SONET (1999 ANALYSIS) (BOY) R	F-P RATIO (NEW/OLD) (1999 ANALYSIS) S	IDII DISPLACEMENT TECHNOLOGICAL OBSOLESCENCE (1999 ANALYSIS) T = $1 - (Q + 1) / Q$	IDI DISPLACEMENT TECHNOLOGICAL OBSOLESCENCE (1999 ANALYSIS) U = $1 - 3I$	NOF & LOOP Actual % of Total
SR =					
a =			66.1%		
b =			1998.1		
			0.4225196		
1991					
1992					
1993					
1994					
1995					
1996					
1997					
1998					
1999					
2000					
2001					
2002					
2003					
2004					
2005					
2006					
2007					
2008					
2009					
2010					
2011					
2012					
2013					
2014					
2015					
2016					
2017					
2018					
2019					
2020					

10/15/07

NOF & LOOP Actual % of Total

BST
SONET IOF Equipment

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Development of the Economic Life and the Average Remaining Life

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Year	Newly Placed Equipment		NG-SONET		SONET Equipment		
	Beginning of Period Surviving %	Historical Mortality Rate %	Penetration %	Technological Obsolescence Rate %	Historical Mortality Rate %	Combined Mortality Rate %	Embedded Surviving %
	A	B	C	D	E	F	G
2000							100.00%
2001							93.35%
2002							86.27%
2003							78.89%
2004							71.37%
2005							63.83%
2006							56.39%
2007							49.15%
2008							42.19%
2009							35.55%
2010							29.28%
2011							23.43%
2012							18.05%
2013							13.23%
2014							9.13%
2015							5.87%
2016							3.50%
2017							1.95%
2018							1.02%
2019							0.51%
2020							0.24%
2021							0.11%
2022							0.05%
2023							
2024							
2025							
2026							
2027							
2028							
2029							
2030							
2031							
2032							
2033							
2034							
2035							
2036							
2037							
2038							
2039							
2040							

Average Remaining Life = 7.3

BST
Digital Switching - Analog Line Equipment (ALE)
Development of the Average Remaining Life

BOY Year	Projected IDLC Penetration % A	Technological Obsolescence Rate % B	Historical Mortality Rate % C	Combined Mortality Rate % D	Survivors % E
1998					
1999					
2000					100.00%
2001					86.58%
2002					73.08%
2003					60.05%
2004					47.97%
2005					37.25%
2006					28.11%
2007					20.63%
2008					14.75%
2009					10.29%
2010					7.01%
2011					4.67%
2012					3.06%
2013					1.96%
2014					1.24%
2015					0.77%
2016					0.47%
2017					0.37%
2018					0.28%
2019					0.21%
2020					0.16%
2021					

Average Remaining Life = 4.49

Historical Mortality Patterns of Digital Switching ALE

ALE Technology

History of ALE Technology
 1998-2021

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BST
Digital Switching - Digital Line Equipment (DLE)
Development of the Economic Life and the Average Remaining Life

Year	= c = g = s		= a = b = SR		Embedded DLE Switching Equipment		
	Newly Placed DLE Equipment		TR303 Compliant DLE		DLE Switching Equipment		Embedded Surviving %
	Beginning of Period Surviving %	Historical Mortality Rate %	Penetration %	Technological Obsolescence Rate %	Historical Mortality Rate %	Combined Mortality Rate %	
	A	B	C	D	E	F	G
2000							100.00%
2001							92.73%
2002							84.72%
2003							75.59%
2004							65.42%
2005							54.11%
2006							41.81%
2007							29.44%
2008							18.56%
2009							10.48%
2010							5.39%
2011							2.59%
2012							1.19%
2013							0.53%
2014							0.23%
2015							0.00%
2016							
2017							
2018							
2019							
2020							
2021							
2022							
2023							
2024							
2025							
2026							
2027							
2028							
2029							
2030							
2031							
2032							
2033							
2034							
2035							
2036							
2037							
2038							
2039							

Average Remaining Life = 5.3

Notes:

Historical Mortality Patterns of Digital Switching DLE

TR-303 DLE Technology

N 1050030 3310 9 000000 H

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BST
Digital Switching - Trunk Interface Equipment (TIE)
Development of the Economic Life and the Average Remaining Life

Year	=c =g =s Newly Placed DLE Equipment		=a =b =sr SONET Compliant TIE		Embedded TIE Switching Equipment		
	Beginning of Period Surviving	Historical Mortality Rate	Penetration	Technological Obsolescence Rate	Historical Mortality Rate	Combined Mortality Rate	Embedded Surviving
	% A	% B	% C	% D	% E	% F	% G
2000							1.00000
2001							90.28%
2002							79.46%
2003							67.79%
2004							55.69%
2005							43.76%
2006							32.74%
2007							23.27%
2008							15.74%
2009							10.17%
2010							6.32%
2011							3.79%
2012							2.22%
2013							1.27%
2014							0.71%
2015							0.39%
2016							0.21%
2017							0.11%
2018							0.06%
2019							0.00%
2020							
2021							
2022							
2023							
2024							
2025							
2026							
2027							
2028							
2029							
2030							
2031							
2032							
2033							
2034							
2035							
2036							
2037							
2038							
2039							

Average Remaining Life = 4.8

Notes:
Historical Mortality Patterns of Digital Switching TIE
 SONET TIE Technology

2000-2009 = 90.28%
 2010-2019 = 43.76%
 2020-2029 = 23.27%
 2030-2039 = 15.74%

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