

980696-TP

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Development of Feeder Metallic Cable Future Life Expectancy

BOY Year	% Fiber	% Copper	Survival Rate	Pre-1998 Circuits (000)	Pre-1998 Survivor Percents	Technological Obsolescence Displacements	Mortality Displacements	Combined Displacement Rate
X	A	B=1-A	C=1-H	D=(1)-(D)*C	E=(1)-(E)*C	F=1. (1-A)(1-A)(1)	G	H= F*(1-F)*G
1991								
1992								
1993								
1994			95.86%					
1995			94.61%					
1996			93.32%					
1997			91.78%					
1998			89.98%					
1999			87.95%					
2000			85.77%					
2001			83.51%					
2002			81.29%					
2003			79.21%					
2004			77.33%					
2005			75.71%					
2006			74.36%					
2007			73.24%					
2008			63.11%					
2009			0.00%					
2010								

100.00%
90.0%
79.1%
67.9%
56.7%
46.1%
36.5%
28.2%
21.4%
15.9%
11.6%
7.3%
0.0%

ORIGINAL

- ACK _____
- AFA _____
- APP _____
- CAF _____
- CMU _____
- CTR _____
- EAG _____
- LEG _____
- LIN _____
- OPC _____
- RCH _____
- SEC _____
- WAS _____
- YTH _____

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Distribution Loop
Development of the Future Life Expectancy for Metallic Cable

BOY Year	% Fiber	% Copper	Survival Rate	Pre-1998 Percent Surviving	Technological Obsolescence Displacements	Mortality Displacements	Combined Displacement Rate
X	A	B=1-A	C=1-H	E=	F=1- B/B(-1)	G	H=
				C(-1)*E(-1)			F*(1-F)*G
1992							
1993							
1994			100.00%				
1995			99.42%				
1996			99.18%				
1997			98.90%				
1998			98.22%	100.00%			
1999			96.29%	98.22%			
2000			92.11%	94.58%			
2001			91.32%	87.11%			
2002			89.45%	79.55%			
2003			88.57%	71.16%			
2004			85.84%	63.03%			
2005			82.92%	54.10%			
2006			79.99%	44.86%			
2007			77.23%	35.88%			
2008			74.78%	27.71%			
2009			72.72%	20.72%			
2010			71.05%	15.07%			
2011			69.75%	10.71%			
2012			68.74%	7.47%			
2013			52.56%	5.13%			
2014			27.12%	7.70%			
2015			0%	0.73%			
2016			0%	0.00%			

Average Remaining Life = sum E / E[1998] - 0.5 = 7.69 Years

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DATE: 04/08/97
TIME: 12.56.48

REPORT : TF_ACTYR
PAGE NO: 1

FLORIDA ANALOG LOCATION LISTING AS OF 1/1/1997 FCC FILING FOR BST 1998

	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>
	Pld	Rcd	1996	
	<u>Year</u>	<u>Year</u>	<u>EOY Investment</u>	<u>Serv Date</u>
	1981	1997	.00	1997/03/22
	1979	1997	.00	1997/03/29
	1981	1997	.00	1997/11/15
† *TOTAL R_DATE	96,496		.00	
	1981	1998	.00	1998/09/25
	1976	1998	.00	1998/12/12
✓ 7 *TOTAL R_DATE	136,869		.00	
	65,962	1983	1999	.00
	28,041	1974	1999	.00
	52,349	1979	1999	.00
	51,987	1982	1999	.00
	56,140	1975	1999	.00
1/3 *TOTAL R_DATE	254,479		.00	
	1983	2000	.00	2000/06/01
	1973	2000	.00	2000/06/01
	1975	2000	.00	2000/06/01
	1975	2000	.00	2000/06/01
	1981	2000	.00	2000/06/01
1/4 *TOTAL R_DATE	283,046		.00	
	1975	2001	.00	2001/06/01
	1978	2001	.00	2001/06/01
	1981	2001	.00	2001/06/01
	1975	2001	.00	2001/06/01
	1975	2001	.00	2001/06/01

3 TOTAL R DATE

14 TOTAL R DATE

18 TOTAL R DATE
19 TOTAL STATE FL

Equip Type

Equip Lines

Pld Year 1975

Rcd Year 1001

1996 EOY Investment

Srv Date 2001/06/01

OR BST 1998
ASTING AS OF 1/1/1997

REPORT : TF AC
PAGE NO.:

1,664,848

1983 1981 2004
1974 2004

218,196

1976 1983 2003
1974 1974 2001
1980 2003 2003

235,717

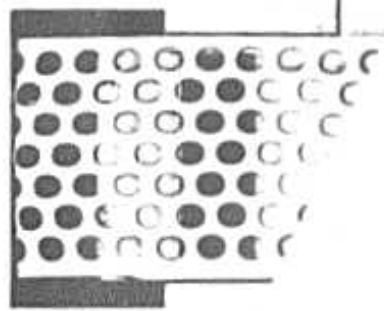
1975 1975 2002
1977 1974 2002
1978 2002 2002

383,674

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.00
2001/06/01
2002/06/01
2004/06/01

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2001/06/01
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.00
.00
2002/06/01
2002/06/01
2002/06/01



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TECHNOLOGY: ANALOG CIRCUIT EQUIPMENT
UNITS: (CIRCUITS)

YEAR	BOY SURVIVORS		DISPLACEMENT RATE	SURVIVAL RATE	% SURVIVING BOY
	I*	J	$K = \frac{1 - (I+1)/J}{1 - K}$	$L = 1 - K$	$M = (1 - K) \cdot J$
1992			0.87241	0.92759	
1993			0.87799	0.92201	
1994			0.87681	0.92319	
1995			0.88048	0.91952	100.0%
1996			0.82632	0.97368	94.0%
1997			0.11208	0.88792	91.5%
1998			0.13607	0.86393	81.2%
1999			0.16129	0.83871	70.2%
2000			0.18552	0.81448	58.9%
2001			0.20556	0.79444	47.9%
2002			0.22378	0.77622	38.1%
2003			0.23674	0.76326	29.6%
2004			0.25444	0.74556	22.9%
2005			0.26190	0.73810	18.8%
2006			0.26882	0.73118	12.7%
2007			0.26620	0.73380	9.1%
2008			0.48890	0.51110	5.7%
2009			1.00000	0.00000	2.9%
2010					0.0%
2011					
2012					

* H = HISTORICAL
* E = ESTIMATED

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AT_1998_04

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

YEAR	BOY SURVIVORS		% SURVIVING BOY	(D) DISPLACEMENT TECHNOLOGICAL OBSOLESCENCE	(D*) DISPLACEMENT NORMAL MORTALITY	(D) DISPLACEMENT COMBINED RATE	(S) SURVIVAL COMBINED RATE
	I*	J	K + E / E(1997)	L	M	N + L * (1 - L) * M	O + 1 - N
1993	H			NOTE 1	NOTE 2		
1994	H						
1995	H						
1996	H						
1997	H						
1998	E		100.0%				0.82621
1999			82.8%				0.77580
2000			64.1%				0.68947
2001			44.2%				0.64800
2002			28.5%				0.59998
2003			17.1%				0.51321
2004			9.8%				0.35390
2005			3.1%				0.17047
2006			0.0%				0.00000

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 * E = ESTIMATED

NOTE 1

NOTE 2

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TECHNOLOGY: OTHER DIGITAL CIRCUIT EQUIPMENT
UNITS: (CIRCUITS)

YEAR	I*	BOY SURVIVORS J	% SURVIVING BOY K + E / E(1998)	(Dn)	(Sn)
				DISPLACEMENT RATE L	SURVIVAL RATE M + I - L
				NOTE 1	
1993	H				
1994	H				
1995	H				
1996	H				
1997	H				
1998	E		00.0%	0.07908	0.82382
1999			92.4%	0.08454	0.81548
2000			84.8%	0.09212	0.80698
2001			78.7%	0.10180	0.80020
2002			88.9%	0.11090	0.80942
2003			81.3%	0.11948	0.80284
2004			54.0%	0.12844	0.87198
2005			47.0%	0.13748	0.86251
2006			40.8%	0.14683	0.85337
2007			34.8%	0.15664	0.84418
2008			29.2%	0.16613	0.83487
2009			24.4%	0.17447	0.82553
2010			20.1%	0.18288	0.81612
2011			16.4%	0.19234	0.80688
2012			12.3%	0.20284	0.79718
2013			10.8%	0.21238	0.78781
2014			8.3%	0.22198	0.77802
2015			6.3%	0.23160	0.76840
2016			5.0%	0.24124	0.75878
2017			3.8%	0.25091	0.74908
2018			2.8%	0.26060	0.73940
2019			2.1%	0.27030	0.72970
2020			0.0%		

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* E = ESTIMATED

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**ASYNCHRONOUS OPTICAL CIRCUIT EQUIPMENT
 (CIRCUITS)**

YEAR	I*	J	K* E / E(1997)	(D)	(Dn)	(Dc)	(Sc)
				DISPLACEMENT TECHNOLOGICAL OBsolescence	DISPLACEMENT NORMAL MORTALITY	DISPLACEMENT COMBINED RATE	SURVIVAL COMBINED RATE
				L	M	N* L * (1 - L) * M	O* 1 - N
				NOTE 1	NOTE 2		
1993		H					
1994		H					
1995		H					
1996		H					
1997		H					
1998		E	100.0%				0.82070
1999			82.1%				0.78070
2000			82.4%				0.88753
2001			43.3%				0.94303
2002			28.0%				0.99968
2003			18.8%				0.96822
2004			9.5%				0.94072
2005			5.2%				0.92963
2006			2.8%				0.91820
2007			1.4%				0.90325
2008			0.0%				0.00000
			0.0%				

NOTE 1:

* H = HISTORICAL
 * E = ESTIMATED

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TECHNOLOGY: SONET CIRCUIT EQUIPMENT
 UNITS: (CIRCUITS)

YEAR	BOY SURVIVORS		% SURVIVING BOY	(DR) DISPLACEMENT RATE	(SR) SURVIVAL RATE
	H	J	K + E / (E/1997)	L	M + 1 - L
				NOTE 1	
1993	H				
1994	H				
1995	H				
1996	H				
1997	H				
1998	E		100.0%		0.92392
1999			92.4%		0.81546
2000			84.8%		0.90888
2001			78.7%		0.88620
2002			68.8%		0.88942
2003			61.3%		0.88054
2004			54.0%		0.87186
2005			47.0%		0.86251
2006			40.8%		0.85327
2007			34.8%		0.84418
2008			29.2%		0.83487
2009			24.4%		0.82553
2010			20.1%		0.81612
2011			16.4%		0.80668
2012			13.2%		0.79718
2013			10.6%		0.78761
2014			8.3%		0.77802
2015			6.5%		0.76840
2016			5.0%		0.75878
2017			3.8%		0.74908
2018			2.8%		0.73940
2019			2.1%		0.72970
2020			0.0%		

* H = HISTORICAL
 * E = ESTIMATED

BST
Digital Switching - Analog Line Equipment (ALE)
Development of Economic Lives

BOY Year	A Projected IDLC Penetration %	B Technological Obsolescence Rate %	Newly Placed Equipment			Embedded Equipment		
			C Historical Mortality Rate %	D Combined Mortality Rate %	E Survivors %	F Historical Mortality Rate %	G Combined Mortality Rate %	H Survivors %
1997								
1998							13.61%	100.00%
1999							15.09%	86.39%
2000							16.61%	73.35%
2001							18.18%	61.17%
2002							19.76%	50.05%
2003							21.36%	40.16%
2004							22.95%	31.58%
2005							24.52%	24.33%
2006							26.05%	18.37%
2007							27.55%	13.58%
2008							28.98%	9.84%
2009							30.35%	6.99%
2010							31.66%	4.87%
2011							32.91%	3.33%
2012							34.11%	2.23%
2013							35.24%	1.47%
2014							36.32%	0.95%
2015							37.37%	0.61%
2016							38.38%	0.38%
2017							39.35%	0.23%
2018							40.29%	0.14%
2019							41.20%	0.08%
2020							42.10%	0.05%
2021							42.98%	0.03%
2022							43.84%	0.02%
2023							44.68%	0.01%
2024							45.52%	0.01%
2025							46.35%	0.00%
2026								
2027								
2028								
2029								
2030								
			Economic Life = 6.92			Average Remaining Life = 4.80		

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BST Integrated DLC						
BOY	Actual Experience		Best Fit Curve		Projected Deployment	
	Substitution		Substitution		Substitution	
	% A	Ratio B	% C	Ratio D	% E	Ratio F
1985						
1986						
1987						
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BSI

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

Year	Newly Purchased DLE Equipment		78193 Completed DLE		Newly Purchased DLE Switching Equipment		DLE Switching Equipment		
	Beginning of Period Surviving % A	Historical Mortality Rate % B	Penetration % C	Technological Obsolescence Rate % D	Combined Mortality Rate % E	New Eq. Surviving % F	Historical Mortality Rate % G	Combined Mortality Rate % H	Embedded Surviving % I
1998									
1999									
2000									
2001									
2002									
2003									
2004									
2005									
2006									
2007									
2008									
2009									
2010									
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2029									
2030									
2031									
2032									
2033									
2034									
2035									
2036									
2037									
2038									
	Economic Life = 8.8				Average Remaining Life = 6.3				

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

Year	Newly Placed DLE Equipment		BORNET Compatible TIE		Newly Placed TIE Switching Equipment		Embodied TIE Switching Equipment	
	Beginning of Period Surviving % A	Historical Mortality Rate % B	Penetration % C	Technological Obsolescence Rate % D	Combined Mortality Rate % E	New Eq. Surviving % F	Historical Mortality Rate % G	Combined Mortality Rate % H
1998	1 01000E+00 %							9.32%
1999	2 96920E+01 %							10.45%
2000	3 18234E+00 %							11.41%
2001			2018.5 %					12.36%
2002			8 262364 -0					13.41%
2003			30.00% +4					14.47%
2004								15.54%
2005								16.75%
2006								17.96%
2007								19.36%
2008								20.79%
2009								22.19%
2010								23.86%
2011								25.51%
2012								27.32%
2013								29.22%
2014								31.17%
2-15								33.17%
2016								35.15%
2017								37.08%
2018								38.94%
2019								40.86%
2020								42.31%
2021								43.82%
2022								45.19%
2023								46.45%
2024								47.61%
2025								48.66%
2026								49.66%
2027								50.63%
2028								51.57%
2029								52.38%
2030								53.22%
2031								
2032								
2033								
2034								
2035								
2036								
2037								
2038								

Average Remaining Life = 6.4

Economic Life = 18.3

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TABLE II - TRANSMISSION FACILITIES

ROW	CLASSIFICATION	COLUMN
		TOTAL STUDY AREA (d)
SHEATH KILOMETERS.		
0320	Total Sheath Kilometers	1,034,601.0
0321	Copper	943,090.3
0322	Fiber	90,092.9
0323	Other	1,417.8
INTEROFFICE WORKING FACILITIES:		
0330	Total Circuit Links	5,245,925
0331	Baseband	16,635
0332	Analog Carrier	0
0333	Digital Carrier	5,229,290
0350	Analog Carrier Links	0
0351	Copper	0
0352	Radio	0
0360	Digital Carrier Links	1,490,563
0361	Copper	69,210
0362	Radio	6,942
0363	Fiber	1,414,411
LOOP PLANT - CENTRAL OFFICE TERMINATIONS:		
0370	Total Working Channels	28,230,400
0380	Copper	20,318,019
0381	Baseband	17,603,712
0382	Analog Carrier	41
0383	Digital Carrier	2,714,268
0390	Fiber Digital Carrier	5,912,292
0410	Other	69

COMPANY: BellSouth Telecommunications
 STUDY AREA: All
 PERIOD: From JAN 1996 To DEC 1996
 COSA BSTR

Approved by OMB
 3060-0395
 Expires 02/28/00
 Unrestricted Version
 Submission 2
 Table II
 Page 2 of 2

TABLE II - TRANSMISSION FACILITIES

ROW	CLASSIFICATION	COLUMN
		TOTAL STUDY AREA (d)
0420	Total Equipped Channels	37,666,890
0430	Copper	30,903,216
0431	Baseband	27,651,828
0432	Analog Carrier	108
0433	Digital Carrier	3,251,282
0440	Fiber Digital Carrier	6,962,832
0460	Other	842
OTHER TRANSMISSION FACILITY DATA:		
0470	Copper Prs. Term. Main Frame (Loop Plant Only)	26,342,776
0480	Fiber Strands Term. in the CO(Loop Plant Only)	138,364
0481	Fiber Term at Customer Premises DSO Rate	417,400
0482	Fiber Term at Customer Premises DS1 Rate	26,574
0483	Fiber Term at Customer Premises DS2 Rate	19
0484	Fiber Term at Customer Premises DS3 Rate and Higher	5,353

FEEDER DLC DATA

FCC REPORT 43-07

FCC LINE#	WORKING CHANNELS	Y/E 1996	Y/E 1995	Y/E 1994	1993	1992	1991	Y/E* 1990
0370	TOTAL WKG CHANNELS	26,230,400	24,682,894	23,284,637	21,275,560	20,196,480	19,915,443	20,071,225
0380	COPPER	20,318,019	19,871,262	19,283,574	18,288,532	17,874,950	18,002,278	18,572,698
0381	BASEBAND	17,603,712	17,362,739	16,910,525	16,056,093	15,806,183	16,083,651	16,533,110
0382	ANALOG CXR (slc)	41	41	50	199	444	503	1,689
0383	DIGITAL CXR (dlc)	2,714,266	2,508,482	2,372,999	2,232,240	2,068,323	1,918,124	2,037,899
0390	FEEDER DIGITAL CXR	5,912,292	4,811,550	4,000,986	2,986,938	2,321,451	1,913,109	1,498,468
0410	OTHER (Radio)	89	82	77	90	87	56	59
%FBR	0390/0370	22.540%	19.493%	17.183%	14.039%	11.494%	9.606%	7.466%
%DLC	(0383+0390)/0370	32.888%	29.656%	27.374%	24.531%	21.735%	19.237%	17.619%
%CuDLC	0383/(0383+0390)	31.464%	34.269%	37.229%	42.770%	47.117%	50.065%	57.627%
%FIDLC	0390/(0383+0390)	68.536%	65.731%	62.771%	57.230%	52.883%	49.935%	42.373%
%SLC	0382/0370	0.000%	0.000%	0.000%	0.001%	0.002%	0.003%	0.008%
%DERIVED	(0382+0383+0390)/0370	32.868%	29.656%	27.374%	24.532%	21.738%	19.240%	17.628%
%BASEBAND		67.112%	70.344%	72.626%	75.468%	78.262%	80.760%	82.372%
%CuDLC vs VF	0383/0370	10.348%	10.163%	10.191%	10.492%	10.241%	9.631%	10.153%
%FIDLC vs VF	0390/0370	22.540%	19.493%	17.183%	14.039%	11.494%	9.606%	7.466%

Fiber Distribution Penetration

BOY	AL	FL	GA	KY	LA	MS	NC	SC	TN	BST
1997	694	10,552	3,867	371	2,566	273	3,628	997	2,302	25,250
1998	2,620	34,623	12,889	983	4,841	879	12,141	2,752	9,566	81,294

© **BELLSOUTH**

1
2 **file code:** 204.0100
3
4 **subject:** Update on Status of Asynchronous Technology Equipment
5
6 **type:** Regional Information Letter
7
8 **date:** May 14, 1998
9
10 **related letters:** RL 95-11-009 BT
11
12 **other:** None
13
14 **to:** Attached Distribution List
15
16 **entities:** BellSouth Infrastructure Planning, Capacity Management and Network
17 Operations
18
19 **from:** D. L. King, Network Vice President - Infrastructure Planning
20
21 **description:** Transmits updates to asynchronous technology equipment inventory and
22 supplier product support status.
23
24 * * *

25
26 Region Letter 95-11-009 BT transmitted asynchronous technology replacement strategies for the
27 migration of services to SONET based transport facilities. These migration strategies, as shown in
28 Attachment 1, are still valid and nothing in this letter alters our recommendations at this time. We
29 will continue to use these six strategies as the focus for positioning the transport networks to
30 transition off of older, obsolete equipment.

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32 This region letter is an update on the status of asynchronous equipment in service in the BellSouth
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					S. L. Gruebhel
					K. K. Zimmerman



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ATTACHMENT 1
RL 95-11-009 BT Technology Directives Summary

Following is a summary of the strategies presented in the 1995 RL which are still valid when planning migration off of asynchronous equipment. These recommendations have not changed



TABLE 2
Asynchronous Equipment Deployment

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TABLE 3
Asynchronous Equipment in-Service, Year End 1997



TABLE 3 (cont'd)
Asynchronous Equipment In-Service, Year End 1997



TABLE 4
Interoffice Network Year Over Year Trend for In-Service Asynchronous Equipment

This table depicts the changes in the Interoffice networks use of asynchronous network elements. Prior year data has not been assembled for loop asynchronous equipment remaining in service and is not included in this table. Loop data will be encompassed in future analysis beginning with year-end 1997 summary shown in Table 2.







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1 **Regional Deployment Plan**

2 File Code: 204 0100
 3 Subject: Interoffice Asynchronous Technology Replacement Plan
 4 Type: Regional Deployment Plan
 5 Date: December 20, 1995
 6 Distribution List: (See Attached Distribution List)
 7 Related Documents: RL 95-10-030 BT
 8 Implementation of SONET Self-Healing Transport Plan - 9/17/93

9 To: Vice President - Broadband Business Systems
 10 Sales Vice Presidents - Interconnect Marketing
 11 Assistant Vice Presidents - Administration
 12 Assistant Vice President - Network Planning and Provisioning Support
 13 Assistant Vice President - Operations Support
 14 General Managers - Network Operations
 15 General Manager - Regional Operations Centers
 16 Senior Directors - Network Operations
 17 Directors - Capacity Management
 18 Directors - Infrastructure Planning
 19 Director - Life Cycle Management/Sales Technical Support (BBS)
 20 Directors - Network Operations
 21 Director - Architecture and Operations Planning & Engineering (BBS)

22 From: D. L. King, Executive Director - Infrastructure Planning

23 Description: Interoffice Asynchronous Technology Replacement Plan

24 This Regional Deployment Directive provides analysis of the existing asynchronous fiber optic technology
 25 deployed in the interoffice network and replacement triggers for migrating services to the Synchronous Optical
 26 Network (SONET) architectures being constructed today. The migration strategy from asynchronous equipment to
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D. L. King
Executive Director -
Infrastructure Planning

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APPENDIX A

INTEROFFICE ASYNCHRONOUS EQUIPMENT REPLACEMENT ANALYSIS

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APPENDIX A

ANALYSIS OF REPLACE TRIGGERS FOR ASYNCHRONOUS TECHNOLOGY EQUIPMENT

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40 Joe A. Garcia, Manager, BellSouth Interconnect Marketing, Oct. 25, 1995.

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