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FPSC-RECORDS/REPORTING

# CONFIDENTIAL

BST Costing Methods Group

Docket No. 92-02-60TL

Test Period Ended 12/31/92

November 12, 1993

# CONFIDENTIAL

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BellCore

Ball Communications Presents

ITEM NO. 1-070

SR-FAD-000229 MARCH 1993

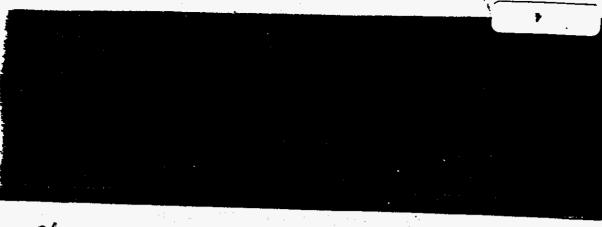
## 1992 ANNUAL REPORT TO SHAREHOLDERS

SCHEDULS OF The Telling OF The Year John Stricks Stric

**785'272** 

Bell Atlantic Corporation American information Technologies Corporation

Southwestern Bell Corporation Pacific Telesis Group Telesector Resources Group Sellsouth Telecommunications, Inc.



88/2-2 11-6/1

See proprietary restrictions on title page. PROPRIETARY - BELLCORE AND AUTHORIZED CLIENTS ONLY

> 45. GRAND TOTAL COST 44. NET INCOME TECO TATOT .EA 41. INSURANCE AND OTHER 40. INTEREST 29. USE (SALES) TAX 38. STATE INCOME TAXES 37. FEDERAL INCOME TAXES 36. PROPERTY TAXES

DEPRECIATION AND AMORTIZATION

SA. PAYROLL TAXES 33' BENELILS

35' BENSION

CORPORATE EXPENSES

SC SUBTOTAL - OTHER DEPARTMENTS St. TOTAL DEPARTMENTS SO: NECYMICO

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SUBTOTAL - FINANCE & ADMIN SC. SS. FINANCE & ADMIN OTHER

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SS. INFORMATION NETWORIDING SERVICES SI. SOFTWARE TECHNOLOGY & SYSTEMS

SC. OPERATIONS TECHNOLOGY
18. WETWORK TECHNOLOGY
19. WETWORK TECHNOLOGY
DEPARTMENTAL EXPENSES

17. TOTAL REVENUE (LINES 13 + 14 + 16)

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SUBTOTAL - MISC REVENUES (LINES 12 +

14 MISC VENERNES NON-BITTED 17 SUBLOLVE - VENENCES BITTED (FINES 8 + 11

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11. SUBTORY - NON-OWNER REVENUES (LINES SOUTH NON-OWNER REVENUES - SPECIFIC NON-OWNER REVENUES - SPECIFIC NON-OWNER BILLING COMMON

SUBTOTAL ELECTIVE (LINES 2 + 5 + CLIENT SPECIFIC

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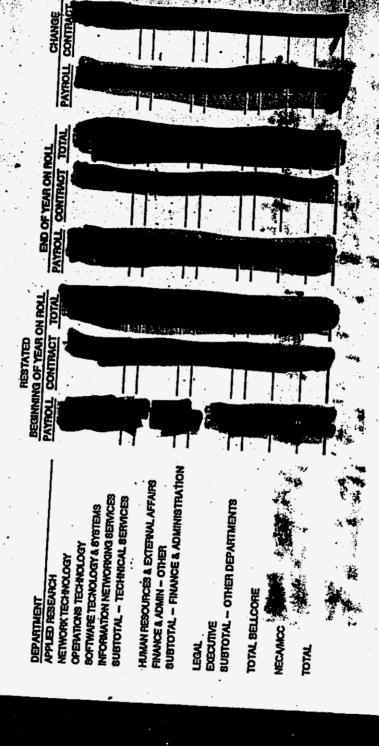
ELECTIVE WERASTRUCTURE SUBTOTAL INFRASTRUCTURE OWNER BILLING







OPERATIONAL FORCE SUMMARY



49-11 2-404 BELLCORE 1992 BILLING ANALYSIS (\$ Millions)

CO	5	r

PROJECT
OWNERS
INDUSTRY CLIENTS (A)
NECA, MCCAND OTHER

1,094.8 81.6 4,2

TOTAL COST

1 130

#### REVENUE

BILLING TO OWNERS	Grow Owner	(7)	္မွ	(4) Not Owner
AMERITECH SERVICES, INC.	Cold/PQP Price	Credits	Other Adiustments	(4=1-2+3)
BELLATLANTIC NETWORK SERVICES, INC. BELLSOUTH TELECOMMUNICATIONS, INC.	188.7 176.5	3X	(0.8)	150.8 182.5 168.8
PACIFIC REIL SOUTHWESTERN BELL TELEPHONE COMPANITELESECTOR RESOURCES GROUP US WEST	1241 Y 1344 1462 1411	46 43 43	(3.25) 4.7 4.1 00 (0.9)	1743 1299 1408 1382
Subtotal billing to owners	1,066.1	325	1.6	1,035.2
BILLING TO INDUSTRY CLIENTS & OTHERS INDUSTRY CLIENT CREDITS TO OWNER PROD		***	*****	
FOR PROJECTS ALLOTHER SUBTOTAL		1	27.1 32.5	59.6
INDUSTRY CLIENT PROJECT COST (A) NECA, MCC AND OTHER				\$1.6 
SUBTOTAL BILLING TO INDUSTRY CLIENT	OTHERS		y 🗚 .	145.4_
TOTAL REVENUE			F-345	1.180.6

### NOTES

- (W Includes NASC Deferred Billing of \$12.7%L .
- (B) \*Gross Allocated Cost/Firm Quoted Prios (FQP),\* as reflected on the Owner Billing Report (BR24), equals Total Owner Project Cost of \$1.094.8M less \$27.1M for Industry Client Credits to FQP Projects and \$1.6M for Buy-Ins to FQP Projects

PROPRIETARY — BELLCORE AND AUTHORIZED CLIENTS ONLY
See proprietary restricted on the title page.

49-11 24ps Belicore Comptroller's Accounting Instructions

Accounting Instruction Effective Date: 01/01/8 Reissued: 05/22/92 Erbibit 1

## 1992 BELLCORE COST ACCOUNTING/ALLOCATION PROCESS

### BELLCORE PAYROLL HEADCOUNT AS OF MARCH 81, 1992

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•	TOTAL BELLOOP		<b>COOP</b>	e/a	OVRIEV COMMON	AREA	NON-DOT	DIEASIL FAMICA	
Officers		·  <del></del> -		_ <del>(4-)</del> -(	L			<u>N</u>	TOTAL
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Technical Director .	101	130	. 2	182	. —	-,0	14		- = 20
Professional Director	-	<b></b>		<b>603</b>	<b>'11</b>	21	25	•	•
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Support Staff (Non-Mgmt)	154		•		- 400	77	615	43	1,101
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Substate	- 25	- <del>13</del> ·			<u>1\$</u> ,	1	105 18	11 3 2	495 . 125
Total End-of-Month (PB/S) *	2,176	4,960		71		27	664	- <del>20</del>	<u>25</u> 784
	1	<u> </u>	144	6,106	761	234	1,821	148	\$,000
Current Manth Average (FB#4) # N/A - Not Applicable	7,965,4	4,347.8	185,8	5,043.6	774.6	852.3	1,312.9	NA	
- ANY Appending								N/A	2.941.8

F Current Month project exceptry based on predominate project of standard work week

As such, FTE headcount entities employees on Cleability/Pamily Care Lauve and lours not scheduled in part time employees.

Also FTE project eleablished employees on Cleability/Pamily Care Lauve and lours not scheduled for part time employees.

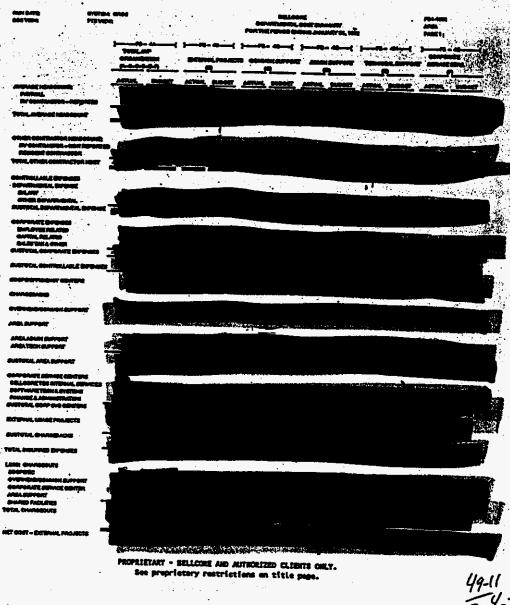
End-of-Month reporting.

PROPRIETARY - SELLCORE AND AUTHORIZED CLIENTS ONLY. See proprietary restrictions on title page.

49-11 5-4pt Delicore Comptroller's Accounting Instructions

Accounting Instruction Of Effective Date: 01/01/24 Reissied: 05/22/92 Exhibit 2

### 1992 BELLCORE COST ACCOUNTING/ALLOCATION PROCESS



Accounting instruction of Effective Date: 01,01,050 Relssue Date: 02,10,650 Page 3 of 6

### Return on Investment (ROI)

The authorized annual ROR factor on a rate base is the authorized level for interstate operations (i.e., the FCC's prescribed interstate rate), and is calculated as follows:

Capital Cost of Capital Weighted Average

Debt 8.8% x 44.2% = 3.89%

Equity 13.2% x 55.8% = 7.36%

FCC's current authorized rate 11.25%

The 11.25% represents the FCC's current authorized rate of return for the interstate services of local exchange carriers. The FCC prescribes using the composite cost of debt and equity of the Regional Holding Companies in calculating the overall rate of return.

### Authorized Rate Base

The authorized rate base is developed by utilizing the USTA generic rate base formula for unregulated subsidiaries of regulated entities. Belicore's average rate base is comprised of three categories which are developed using Belicore's Balance Sheet: (1) average net asset investment (i.e., net property, plant and equipment), (2) average net other assets (i.e., deferred charges and other non-current assets less deferred income taxes and credits) and (3) average working capital (i.e. current assets less current liabilities (excluding short-term borrowing and current portion capital lease obligations)). See Exhibit 2 for an example of the monthly rate base development.

As noted above, the authorized USTA rate base formula requires the development of an authorized rate base from certain Balance Sheet categories. To further attest to the validity of this rate base, a monthly reconciliation of Belloore's Investor Supplied Capital is performed. See Exhibit 3 for an example of this monthly reconciliation.

It is important to note that in order to book ROI on a monthly basis, certain Balance Sheet items are estimated to develop the rate base. Therefore, a difference may occur between the rate base used to record monthly ROI and the rate base per the actual final monthly Balance Sheet. As a result, an adjustment to true-up ROI may be required. This adjustment will be done, at a minimum, on a quarterly basis or sooner as deemed appropriate by management. See Exhibit 4, Lines I and 2 for the average annual authorized rate base per year.

### Return on Rate Base

The return on rate base is determined by applying the ROR factor to the average rate base. See Exhibit 5, Line 4 for the return on rate base per year.

### Resultant Net Income

PROPRIETARY - BELLCORE AND AUTHORIZED CLIENTS ONLY.

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PROPRIETARY-BELLICORE AND AUTHORIZED CLIENTS ONLY See Proprietary restrictions on title page.

Accounting In truction ()
Effective Date: 01/01/01 counting Instructions Reissued: 02/10/93 Exhibit 4 RETURN ON INVESTMENT (ROI) . RETURN ON INVESTMENT BY COMPONENT FOR YEARS 1984 TEROOGE 1993 (DOLLARS IN THOUSANDS) ACTUAL ACTUAL ACTUAL ACTUAL ACTUAL ACTUAL ACTUAL ACTUAL ACTUAL 1984 1985 1985 1987 1988 1989 1990 1991 1. Minus OF EQUILIT BASE 2. DETA BATE BASE 3. METERS OF MOURTS & 4. MATE OF MINUS 5. DIVIDED GROSS TO 6. FOR VARIABLE 7. INTEREST OF DEST S. HET THOME 1984-1990 (Zai Z Zai Z Zai) 1991-1993 (Laž Z Za4 - Za7) .1 9. GROSS STATE INCOME TAXES . 19.ADD: TAX RESERVE 11.HET STATE INCOME TAKES (Zas + Za10) 12.GROSS FIDERAL INCOME TAX \*\* 13.IMES: AMORT. OF ITC 14.LESS: THE EFFE. OF ACL. DEPR. 15.300: TAX RESERVE 16.ME FEMAL DICKE THE (In12 - In13 - In14 + In15) 17.0TER TAX ADJUSTMENTS \*\*\* 18. TOTAL TAXES (Lall + Lal6 + Lal7) 19. INCIDENT ON DEST 20. TOTAL RETURN ON DIVERTICAL (Las + Lais + Lais) 21.GROSSED-UP ROR (En20/En2) THE RATES! FEDERAL DICORE TAX RATE STATE TAX FACTOR COMPOSITE STATE TAX BATE 4 DOES NOT INCLUDE THE EFFECT OF THE POP VARIANCE. \* FIDERAL PRE-TAX INCOME PLUS STATE TAX RESERVE DIVIDED BY THE STATE TAX PACTOR EQUALS STATE PRE-TAX INCOME. MULTIPLIED BY THE COMPOSITE STATE TAX PART EQUALS GROSS STATE DECOME TAXES. MULTIPLIED BY THE CORPOSITE STATE TAX MATE BURGLE GREEN STATE LINCONE LAKES.

\*\* RET INCOME LESS ANCRE. OF ITC, LESS INC. EFFECT ON ACL. DEPR., PLUS INL. RESERVE, DIVIDED BY I MINUS INC. STATUTORY FEDERAL TAX RATE EQUALS FEDERAL PRE-TAX DECORS. FEDERAL PRE-TAX DECORS MULTIPLIED BY THE STATUTORY FIRMAL INCOME TAX RAIL POUNTS GROSS SIDERAL INCOME TAX. --- 1986 AND 1989 IS TAX EFFECT OF FOR VARIANCE; 1991 IS COST ASSOCIATED WITE DIVERTITURE-RELATED AUDIT.

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PROPRIETARY-BELLCORE AND AUTHORISED CLIENTS ONLY See Proprietary restrictions on title page.

49-11 2-4p10

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(DOLLARS IN TROUBLES) CYTCHIVITOR OF BYIK OF BILING (BOR) FOR YEARS 1984 THRONGE 1993 PETTCOSE

RELIGIE ON INAUGURAL (ROI)

Releaned: 02/10/93



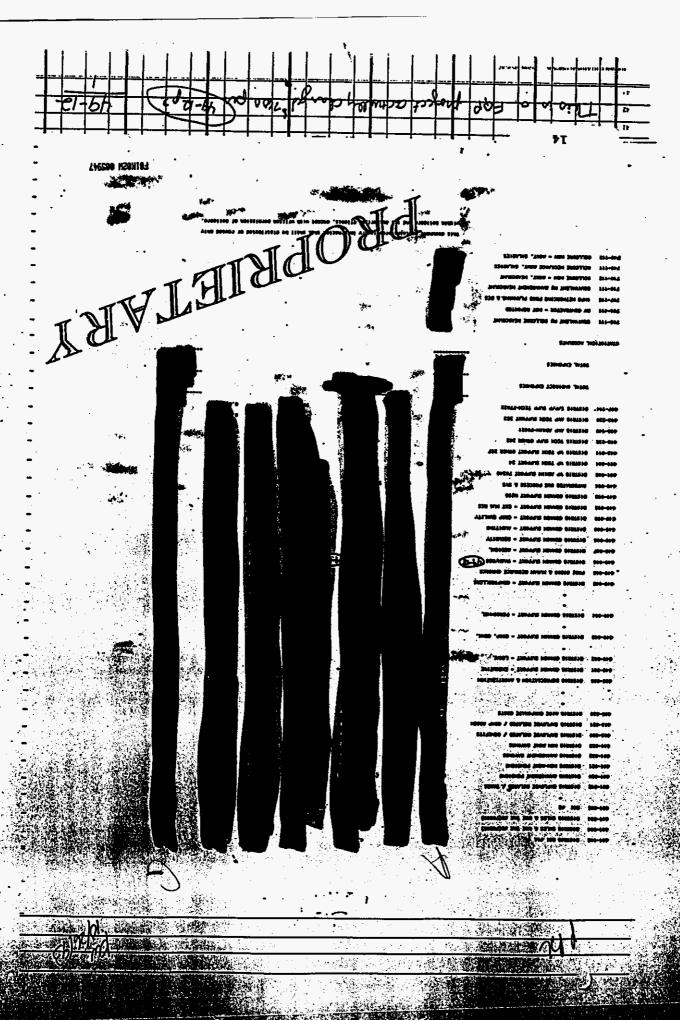
# RECONCILIATION OF ALLOCATED COSTS VERSUS PATHENTS RECEIVED TEAR: 1992. (\$000)

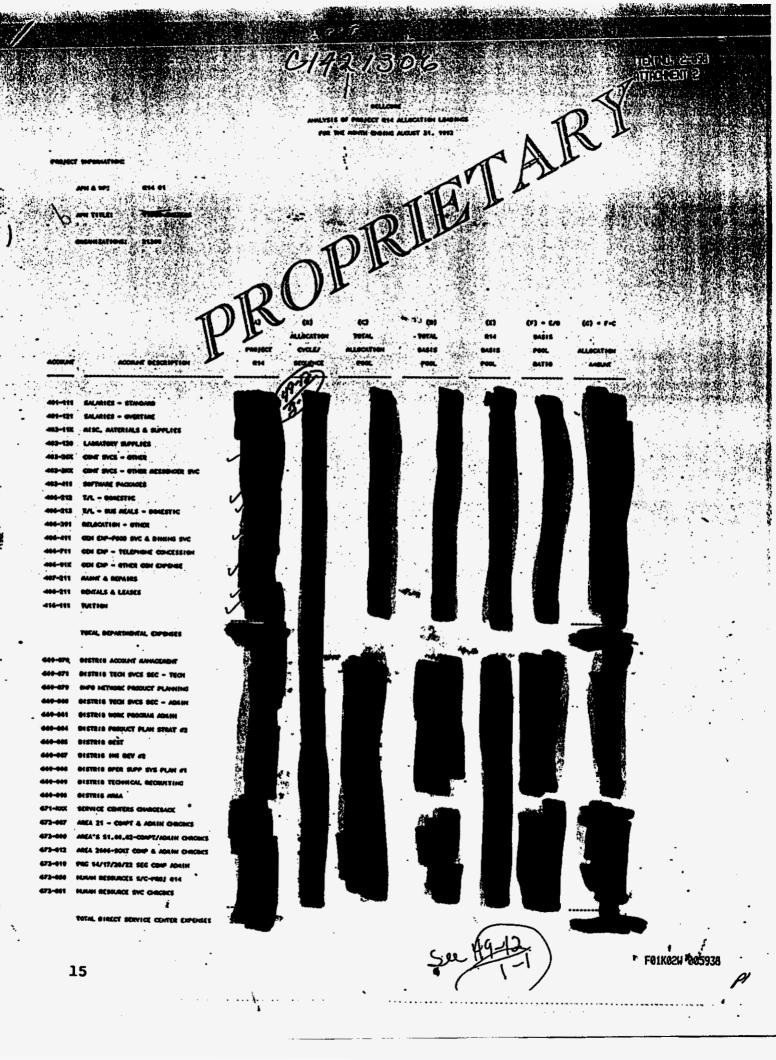
CLINERS	12/31/91 RECEIVABLE BALANCE A	1992 GENERAL (1) BILLING	1992 INTEREST CHARGES E	1992 TOTAL BILLING	1992 TOTAL PAYMENTS	12/31/92 RECEIVABLE BALANCE	1992 RECEIVABLE BALANCE AS OF 2/16/93
				D+8+C	E=4+9-F		
AHERITECH	20,201.7	150,810.9	(455,4)	150,355.3	146,665.2	23,691.8	0.0
BELL ATLANTIC	28,014.9	182,515.3	(590.6)	181,924.7	178,702.2	31,237.4	0.0
DELLSOUTH	21,648.2	1632,168,792.4	(907.0)	167,883.4	14-22164,416.4	25,115.2	0.0
PACIFIC BELL	16,444.2	124,221.6	3,562.7	127,784.3	. 124,781.2	19,447.3	0.0
SOUTHWESTERN BELL TEL.	19,032.0	129,924.0	(473.4)	129,450.4	126,506.0	21,978.4	0.0
TELESECTOR RESOURCES GROUP	18,872.1	140,746.3	(757.9)	139,988.4	. 135,140.6.~	23,741.7	_ 0.0
U S WEST	18,620.8	138,233.2	(114.0)	138,119.2	134,648.5	22,091.5	0.0
TOTAL CAMERS	142,833.9	1,035,243.7	262.0 (2)	1,035,505.7	1,010,836.3	167,503.3	0.0
EMPOSTRY CLIENTS	٠,		٠				
SHET COS OTHER	3,687.4 1,377.5 9,325.7		•	22,214.1 9,551.6 100,286.3	21,940.9 9,420.0 93,081.9	3,960,6 1,509,1 16,530,1	0.0 0.0 4,184.3 (3)
TOTAL INDUSTRY CLIENTS	14,390.6		-	132,052.0	124,442.8	21,999.8	6,184,3
TOTAL	157,224.5	·.	•	1,167,557.7	1,135,279.1	109,503.1	6,184.3
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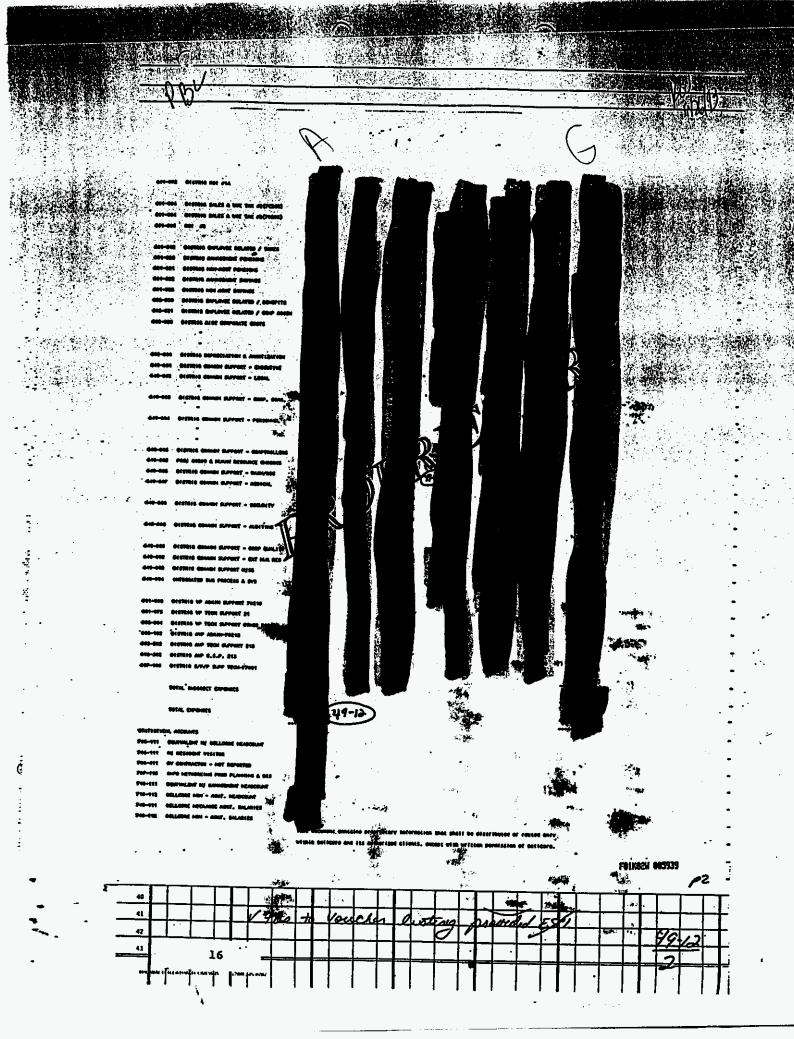
(1) REFLECTS HOVENBER AND DECEMBER 1991 BILLING
(2) REFLECTS PACIFIC BELL'S 1992 DEFERRED INTEREST PAYMENTS OF \$262.0K FOR THE 1990 PLANNING & ENGINEERING CRITICAL PROJECT BUT-INS.
(3) REFLECTS \$5.5M CENTRAL TELEPHONE COMPANY RECEIVABLE DUE FOR SOFTMARE DEVELOPMENT.
ACCEPTANCE TESTING IS COMPLETE AND PAYMENT IS BEING PROCESSED.

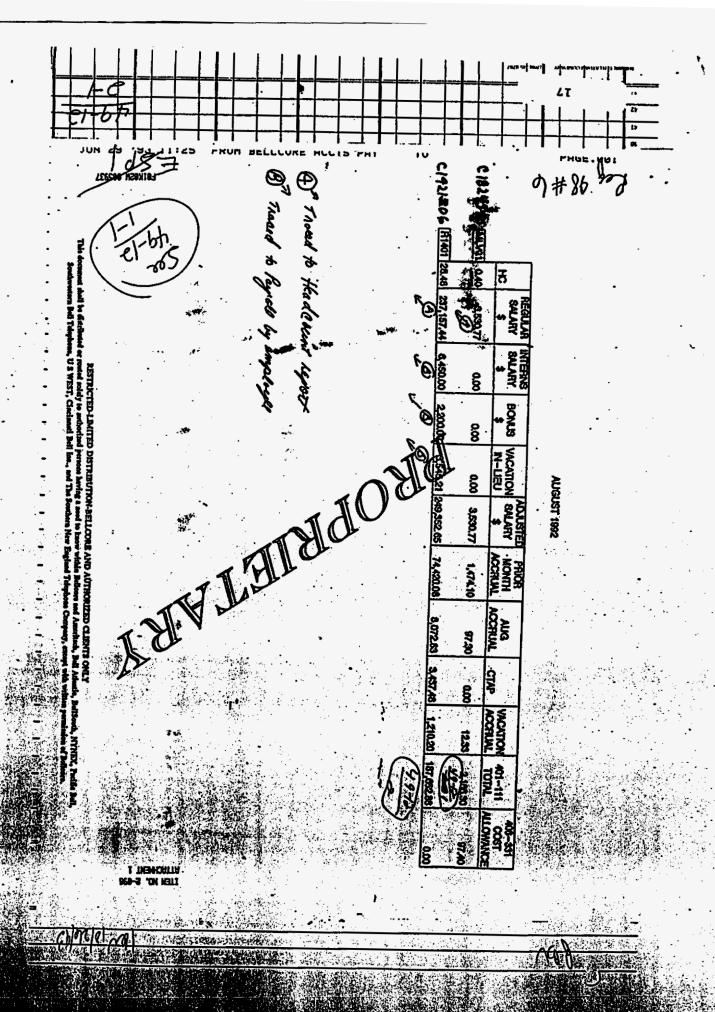
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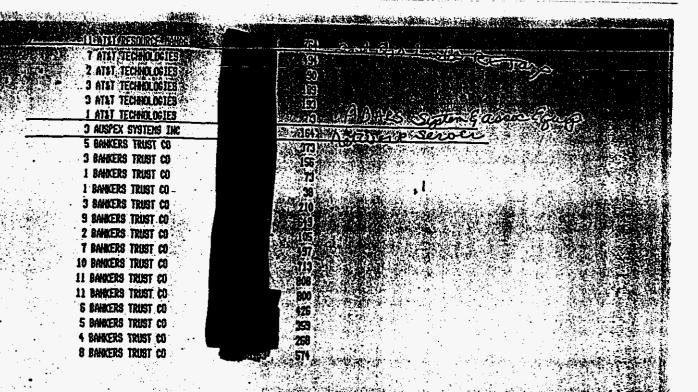


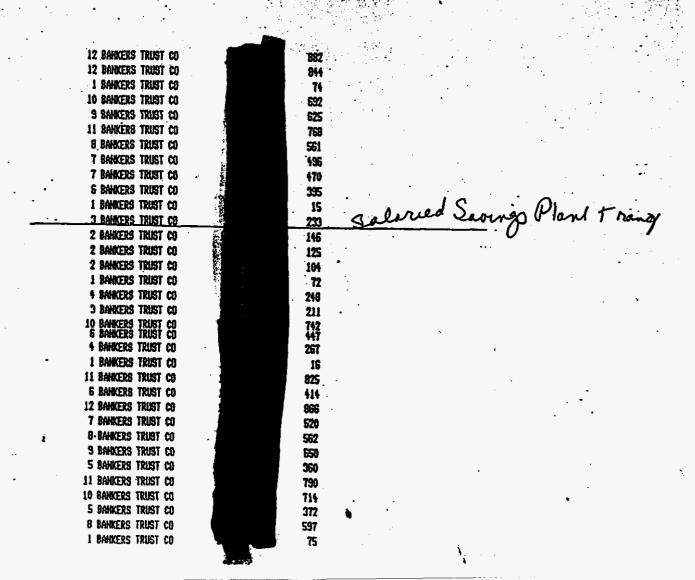


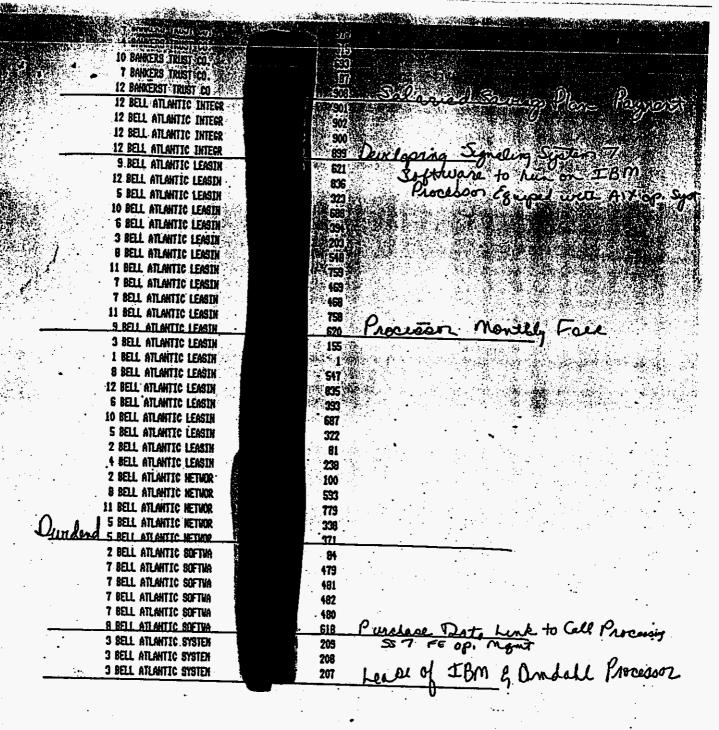




Walter.	C ALOCH SPOTAN SCHOOL	
	6 ALGEN DESIGN SERVICE	
	7 ALGEN DESIGN SERVICE	485
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	1 ALGEN DESIGN SERVICE	47
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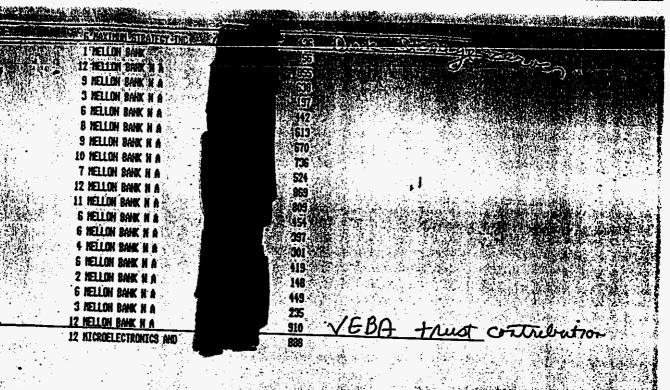
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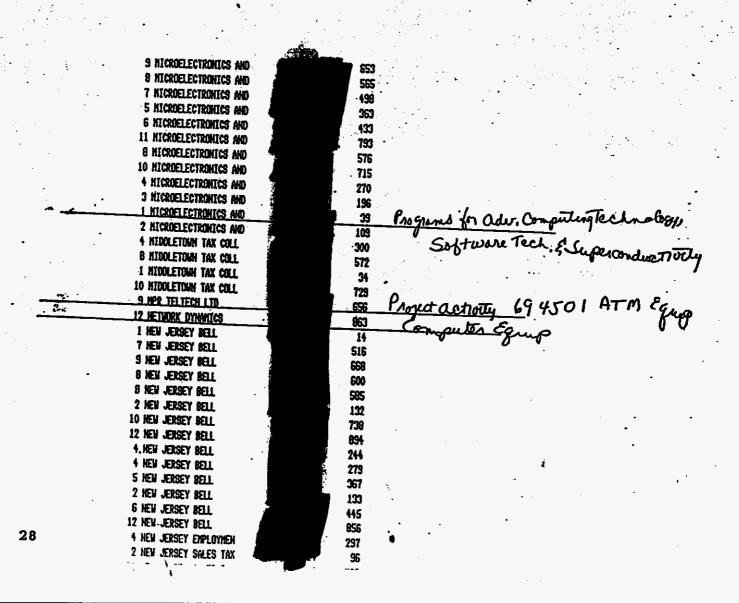
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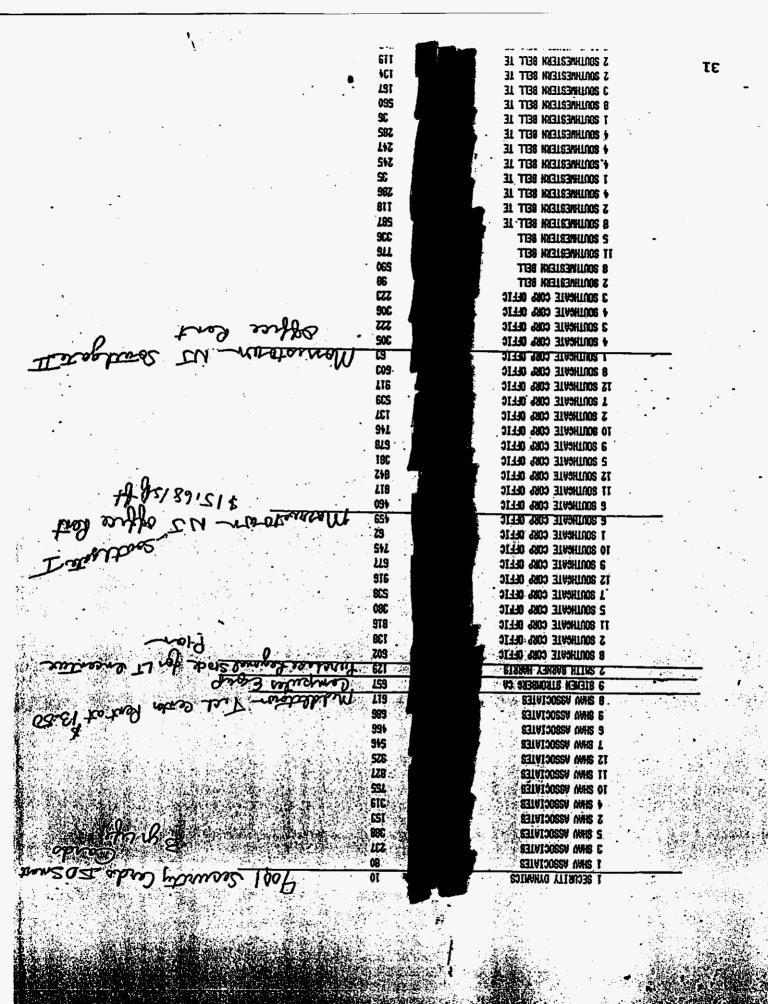


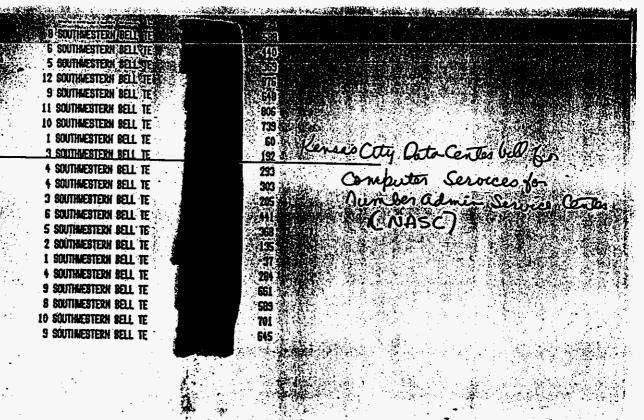
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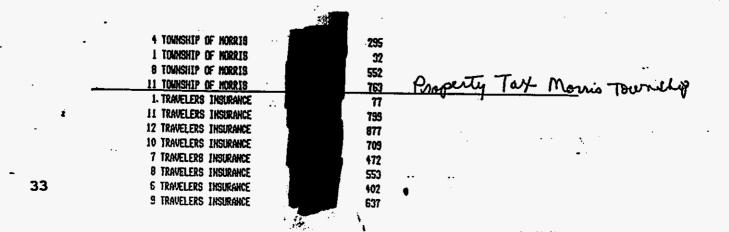
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Item No. 2-121.A Attachment I

## BELLCORE VOUCHER INFORMATION

- 91. Gemini Consulting This voucher covered expenses accrued to a consulting firm specializing in business process re-engineering.
- The equipment, which consists of three (3) Asynchronous Transfer Mode (ATM) switches, was used to build part of the Bellcore Research Network Testbed.
- Equipment is for the Network Services Test System (NSTS) Network Controller in the NSTS Lab.
- This contract was associated with the relocation of Bellcore's Distribution Storage Center (DSC) to PYABuilding LTT
- 26 49. Chrysier

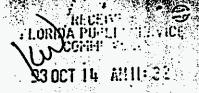
  The equipment bought out was an electron beam evaporator system, used to conduct applied research on this film materials that are unavailable from commercial sources. The equipment was necessary to prepare these electronic materials, evaluate their performance, and appraise their potential for components to support exchange access telecommunications applications.
- This project is a Licensing activity conducted in support of an international client through one of the RBOCs as provided in the Service Agreement. BellSouth is not a participant of this client-specific project. All charges are billed to the sponsoring RBOC.
- 39. Charles Evans Affil This is the location of Bellcore's Building 4 in Piscataway.

38. Control Data
See Attachment II for the requested backup. A clearer
or better copy is not available.

44. Executive Relocation Services
The employee's title is Director and transferred to
Bellcore.

20. Carnegie Mellon Univ This was charged to Account 403-291.

PROPRIETARY



FINANCIAL AHALYSIS DIV.

Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260 Audit Date: 09/28/93 | Item No. 2-121.A Page 1 of 1

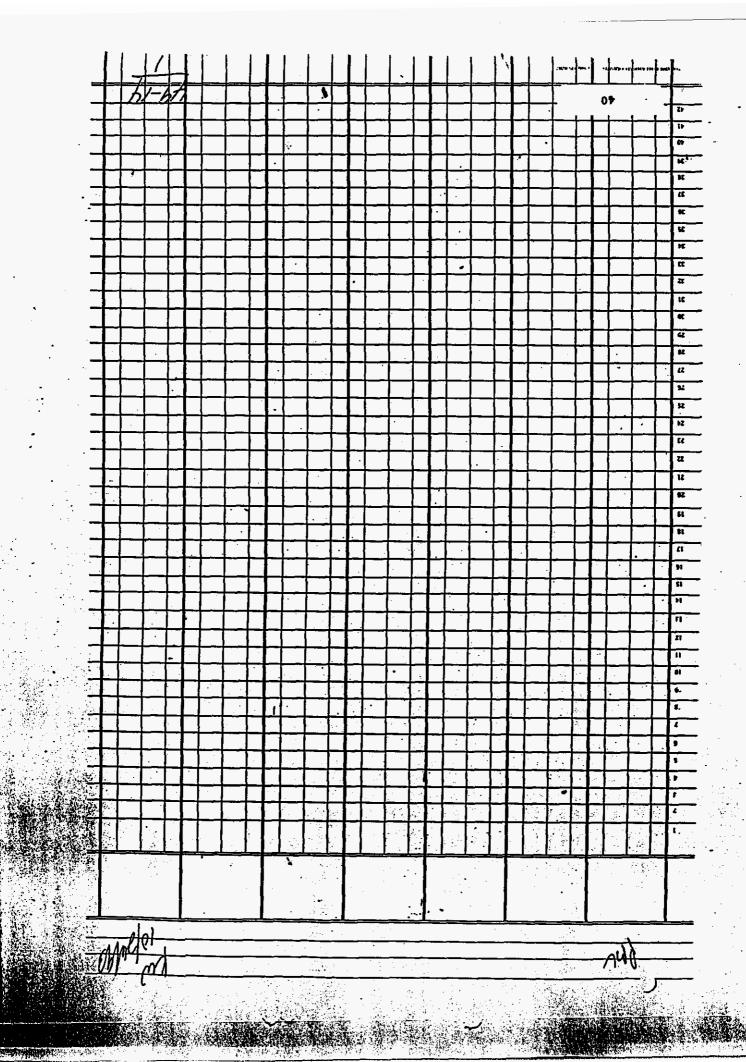
Request: Answer questions related to vouchers provided. Attachment with questions is being given to Al Carreras as it is ESPI.

Response: See Attachment I for explanation of expenses. See Attachment II for backup for Control Data.

These attachments are being sent in the overnight mail on October 13, 1993.

This material constitutes proprietary confidential business information and is being produced subject to a "Notice of Intent to Request Confidential Classification."

Date Provided: October 13, 1993



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BST

TITLE:

REVIEW OF INTERNAL AUDIT

H20-36-02-A-SF

PART 64 - JOINT COST ORDER COST SEPARATION SYSTEM

AND COST ALLOCATION MANUAL COMPLIANCE

BSC - COMPTROLLERS; BST - COMPTROLLERS, INFORMATION

SYTEMS, NETWORK

AUDIT REPORT

DATE:

NOVEMBER, 199

DATE: AUDITOR: AUGUST 10,19

CONFIDENTIAL

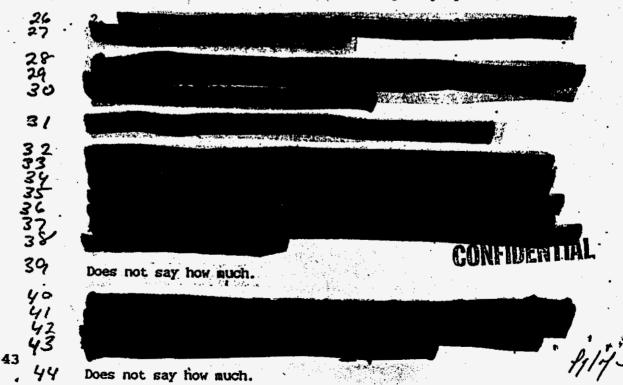
WP NO.

INTRO:

The JCO makes it a requriement that BST allocate g/l accounts between reg and nonreg activities. The tables in the CAM (cost apportionment tables) documents the allocation method of each account and corresponding cost pool.

Changes to the CAM are submitted to the FCC quarterly and are implemented by filling out CR (change requestes) and entering these into the CSS (Cost Separations System).

The CSS performs the cost apportionment. The process is dependent on 15 othe info systems. "CSS produces the Cost Pool Allocation Matrix (CPAM) file, which is usedfor generating monthly regulated and non-regulated info as well as for financial analysis purposes."



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COMPANY:

TITLE:

REVIEW OF INTERNAL AUDIT

H20-36-02-A-SF

PART 64 - JOINT COST ORDER COST SEPARATION SYSTEM

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The CSS performs the cost apportionment. The process is dependent on 15 othe info systems. "CSS produces the Cost Pool Allocation Matrix (CPAM) file, which is usedfor generating monthly regulated and non-regulated info as well as for financial analysis purposes."

Does not say how much.

Did internal audit recompute these?

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## MEMORANDUM

**AUGUST 10, 1993** 

TO: FROM:

KAREN KAETZ, BST, BIRMINGHAM RUTH K YOUNG, FPSC, MIAMI

Py

RE:

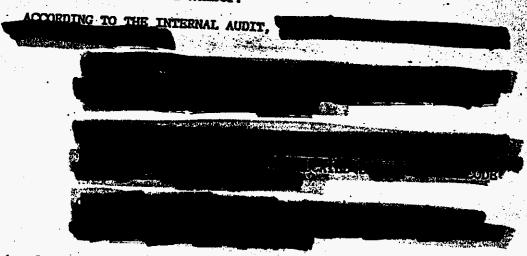
NARUC AUDIT - COSTING METHODOLOGIES GROUP

2-002

CONFIDENTIAL QUESTIONS ARE BEING SUBMITTED UNDER SEPARATE COVER REGARDING INTERNAL AUDIT NO. H20-36-02-A-SF, JOINT COST ORDER COST SEPARATION SYSTEM AND COST ALLOCATION MANUAL COMPLIANCE, DATED NOVEMBER, 1992.

This is the only copy being submitted. Tim Devlin will send you the official number.

15 15/89 2012/3 2426



- 1. DID INTERNAL AUDIT RECALCULATE THESE ACCOUNTS BASED ON THE CORRECTIONS TO THE COST POOLS?
- 2. IF SO, APROVIDE AMOUNTS ADJUSTED AND ALL SOURCE DOCUMENTATION
- 3. IF NOT, EXPLAIN WHY NO ADJUSTMENT AND RECALCULATE NOW. PROVIDE ALL SOURCE DOCUMENTATION TO RECALCULATION.

# CONFIDENTIAL

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ANALYSIS OF PLANT REG/NON REG DEC. 92

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KATHY WELCH AUGUST 25, 1993

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account	hr	NON-REG	TOTAL	Z NON REG	Z OF.	FR	NON-REG	TOTAL	I NOH REG	# OF
	REG		松		TOTAL	REG		FR		TOTAL
2124	315,595,047.26	22,534,106.62	330,129,153.60	6.661	4.122	315,498,264.26	22,534,106.62	338,032,370.88	6.672	4.12
2211	587,694,137.40	110.59	587,694,247.99	0.002	7.171	587,694,137.40	110.59	587,694,247.99	0.002	7.167
2212	984,345,384.85	20,861,940.63	1,005,207,325.48	2.084	12.261	984,345,384.85	20,861,940.63	1,005,207,325.48	2,082	12.25%
2215	3,544.56		3,544.56	0.002	0.001	3,544.56	•	3,544.56	0.00\$	0.001
2231	5,569,689.60	}	5,569,689.60	0.00%	0.072	5,569,689.60		5,569,689.60	0.002	0.071
2232	1,778,526,665.87	•	1,778,526,665.87	0.002	21.681	1,779,526,665.87		1,779,526,665.87	0.002	21.68
2411	122,074,845.39	1	122,074,845.39	0.001	1.492	122,074,845.39	•	122,074,845.39	0.002	1.492
2421	655,242,207.53	1	655,242,207.53	0.002	7.991	656,129,450.53		656,129,450.53	0.007	8.001
2422	889,866,241.82		889,866,241.82	0.001	10.85%	889,866,241.82		899,866,241.82	0.001	10.84%
2423	2,127,703,241.15	;	2,127,703,241.15	0.002	25.941			2,130,851,296.15	0.001	25.96%
2424			9,914,569.07	0.002	0.121	9,914,568.07		9,914,568.07	0.00%	0.12%
2426	42,037,673.14		42,037,673.14	0.002	0.512	42,034,673.14		42,034,673.14	0.001	0,512
2431	4,427,265.59	•	4,427,265.59	0.002	0.05%	4,427,265.59		4,427,265.59	0.00\$	0.052
2441	635,390,264.73		635,390,264.73	0.001	7.751	635,390,264.73		635,390,264.73	0.001	7.742
•	8,158,390,776.96	43,396,157.84	8,201,786,934.80	0.53‡	100.001	8,163,326,291.96	43,396,157.84	8,206,722,449.80	0.532	100.002
JUM OF 221X	1,572,043,066.81	20,862,051.22	1,592,905,118.03	. 1.311		1,572,043,066.81	20,862,051.22	1,592,905,118.03	1.314	
.UM 2231,2, 24XX	6,270,752,662.89	0.00	5,270,752,662.89	100.0		6,275,784,960.89	0.00	6,275,784,960.89	0.002	
EL EXCEPT 2124	7,842,795,729.70	20,862,051.22	7,863,657,780.92	0.272		7,847,828,027.70	20,862,651.22	7,060,690,078.92	0.27%	,

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Special Report SR-GLC-000669 Issue 3, May 1988

Basic Bellcore

GREEMENTS







Special Report SR-GLC-000669 Issue 3, May 1988

Basic Bellcore Agreements

## C O N T E N T S

Shareholders' Agreement

Dated October 2, 1984 and Amended January 1, 1988

Service Agreement Dated January 1, 1988

Bellcore TEC Agreement

Currently Under Negotiation — To Be Provided Upon

Execution

Trade Name, Trademark and Service Mark License Agreement Dated December 31, 1983

Intellectual Property Agreement

Currently Under Negotiation — To Be Provided Upon

Execution

National Security/Emergency Preparedness Agreement Dated March 6, 1984 Shareholders'

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#### SHAREHOLDERS AGREEMENT

Shareholders' Agreement, dated as of October 2, 1984 ("Agreement") and amended as of January 1, 1988 among Ameritech Services, Inc.; Bell Atlantic Network Services, Inc.; BellSouth Services Incorporated; NYNEX Service Company; Pacific Bell; U.S. WEST Advanced Technologies, Inc., as agent for The Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone Company; and Southwestern Bell Telephone Company (which are referred to individually as a "Shareholder" and collectively as the "Shareholders").

Bell Communications Research, Inc. (the "Corporation") was incorporated in the State of Delaware on October 20, 1983. In accordance with the Modification of Final Judgment ("MFJ") in United States of America v. Western Electric Company, Incorporated and American Telephone and Telegraph Company (Civil Action No. 82-0192) in the United States District Court for the District of Columbia, the Shareholders are the sole shareholders of the Corporation. The parties desire to effect certain understandings among themselves with respect to the organization and operation of the Corporation and to provide for certain restrictions on the abilities of the Shareholders to transfer their interests in the Corporation.

THEREFORE, the Shareholders agree as follows;

Section 1. Organization and Capital Structure.

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1.1 Certificate of Incorporation. The Corporation's certificate of incorporation shall be as contained in the restated certificate of incorporation filed with the Secretary of State of the State of

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Delaware on April 24, 1985, until such time as the Corporation's certificate of incorporation may be further amended if any such amendment becomes necessary.

- 1.2 Bylaws. The Corporation's bylaws shall be those adopted on October 21, 1983 and amended on October 2, 1985, and shall remain in effect until such time as further amended, if needed, in accordance with the terms of this Agreement.
- 1.3 Supremacy of this Agreement. If any provision of the Corporation's certificate of incorporation or bylaws shall be deemed to be inconsistent with any provision of this Agreement, then the provisions of this Agreement shall govern, and the parties shall promptly take whatever actions may be necessary or desirable to cause the provisions of the certificate of incorporation and bylaws to be amended to be consistent with the provisions of this Agreement. In the event that and to the extent that the provisions of this Shareholders' Agreement conflict with matters specifically addressed in the Service Agreement, Intellectual Property Agreement, or Bellcore TEC Agreement, the provisions of this Shareholders' Agreement shall control.
- 1.4 Capital Structure. The Corporation shall make or cause to be made whatever changes in its capital structure as may be necessary so that the capital structure shall consist of only seven (7) shares of no par common voting shares (collectively the "Shares," or individually the "Share"). Except as provided herein in the next sentence, one Share shall be issued to each of the Shareholders. For all purposes of this Agreement, The Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone Company shall be deemed to be one Shareholder, and each of these corporations shall receive a fractional interest in one Share but shall be jointly and severally liable for the obligations of a Shareholder under this Agreement and shall designate in writing a single representative whose vote shall be binding on all three corporations on any matter on which a Shareholder vote is required or authorized. Except for (a) any transfer permitted by Section 6 of this Agreement, or (b) any reissuance of a Share or a fractional Share to a "Related Entity" (as defined in Section 1.5), there shall

be no issuance of any additional Share of any kind of the Corporation without the unanimous vote of all Shareholders.

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1.5 Ownership of Shares. Except for any transfers in accordance with the provisions of Section 6, the Shares may be owned and registered only in the name of a Shareholder or a "Related Entity" of a Shareholder. Related Entity shall mean: (a) a corporation that is 90% or more owned, directly or indirectly, by a Shareholder, (b) a corporation that owns, directly or indirectly, 90% or more of the Shares or interests in the capital or profits of the Shareholder, if and for so long as such corporation may be designated as a Related Entity in a written instrument filed by the Shareholder with the Corporation, or (c) a trust for the benefit of a Shareholder or any entity described in (a) or (b) of this Section.

#### Section 2. Governance.

- 2.1 Board of Directors. The Corporation's board of directors (the "Board of Directors") shall consist of seven (7) directors (collectively "Directors" and individually "Director"), and the number of Directors shall not be changed without the unanimous consent of the Shareholders. At each election of Directors, each Shareholder shall be entitled to nominate one Director, and each Shareholder hereby agrees to vote its Share for the nominees of each of the other Shareholders. In the event one or more Shareholders shall have purchased or otherwise acquired the Share owned by another Shareholder, the right of the transferor Shareholder to nominate a Director shall be exercised by the transferee Shareholder.
- 2.2 Removals: Vacancies. At any time a Shareholder may remove its Director and nominate a replacement Director for the removed Director, and each Shareholder agrees to vote for such nominee. A Director nominated by a Shareholder may be removed only with the written consent of such Shareholder, and no Shareholder shall vote its Share for the removal of a Director nominated by another Shareholder without the nominating Shareholder's written consent. In the event of the removal, resignation, death or incapacity of any Director, the vacancy thereby created shall be filled within thirty (30) days by a nominee

of the Shareholder whose nominee was so removed, resigned, deceased or incapacitated. If such Shareholder fails to nominate a Director within the thirty (30) day period, then the remaining Directors missing five five (5) days written notice to such Shareholder, by a majority vote, appoint a Director to serve until such time as such Shareholder shall nominate another Director and such nominee shall have taken office.

- 2.3 Ex-Officio Directors. The persons serving from time to time as the chief executive officer, executive vice president and chief-financial officer of the-Corporation shall not be eligible to be Directors nominated by any one Shareholder but shall serve ex-officio as nonvoting members of the Board of Directors. The chief executive officer shall preside at meetings of Directors and Shareholders. The ex-officio directors shall not be counted with respect to any votes required or permitted of the Directors under the terms of this Agreement.
- 2.4 Compensation; Expenses. No Director shall receive compensation for serving as a Director, and each Shareholder shall pay all expenses incurred by the Director it nominates in connection with serving as a Director. Any Director may serve the Corporation in any other capacity and receive compensation therefor.
- 2.5 Special Voting Requirements. The Shareholders agree that, in addition to the special voting requirements specified elsewhere in this Agreement, the following actions by the Corporation shall not be undertaken unless first approved by the unanimous vote of the entire Board of Directors and of all the Shareholders:
  - (a) the dissolution or liquidation of the Corporation;
  - (b) the merger or consolidation of the Corporation with or into any other corporation or other entity;
  - (c) the lease, mortgage, pledge, sale or other disposition or transfer of all or substantially all of the assets of the Corporation; and
  - (d) any amendment to the Corporation's certificate of incorporation or bylaws.

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All other matters to be voted upon by the Board of Directors, except as specifically provided to the contrary in this Agreement, shall be decided by the affirmative vote of a majority of the entire Board of Directors.

2.6 Restrictions on Directors. The Shareholders recognize that the provisions of this Agreement constitute restrictions upon the discretion of Directors in the manner described in Section 350 of the Delaware General Corporation Law (the "GCL").

Section 3. Projects, Business Plans, Budgets and Funding of the Corporation.

3.1 General. The minimum unit of Bellcore work, including services and deliverable(s), which is available to Shareholders for funding shall be referred to herein as a project ("Project"). As described more fully below, there shall be two (2) major categories of Projects, designated as Infrastructure Projects and Elective Projects. A business plan covering a three-year period reflecting goals, strategies, and objectives for the Corporation and each of its subsequent years' Projects shall be approved annually by the Board of Directors. Revised business plans will be reviewed and modified as appropriate at meetings of the Board of Directors.

3.2 Authorized Activities. The authorized activities ("Authorized Activities") of the Corporation shall consist only of those activities which support (a) the provision of exchange telecommunications services and exchange access services (as these terms are used and defined in the MFJ and in the orders of the Court relating to the MFJ), (b) the activities undertaken by the Corporation in its capacity as the single point of contact for coordination of the Bell Operating Companies (as named in Appendix A to the MFJ) to meet the requirements of national security and emergency preparedness, and/or (c) any other activities consistent with the MFJ and antitrust laws and authorized by the unanimous vote of the entire Board of Directors.

3.3 Infrastructure Projects. Each Infrastructure Project of the Corporation shall consist only of those activities which (a) are activities within the definition of Authorized Activities as defined in Section 3.2 above, (b) are activities which are consistent with the antitrust standard set forth in Section 7.3, and (c) are

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either: (1) mandated to Bellcore by federal regulatory, judicial or legislative bodies or (2) conform to the ta

- the Project is within at least one of the definitions of applied research, standards and architecture, or generic technology procurement support which are set forth in Attachment A. of this Agreement and incorporated by reference herein ("Infrastructure Project Categories"), and
- (ii) the Project is judged to be potentially of substantial benefit to all of the Shareholders, and
- (iii) the Project is of such a nature that this substantial benefit is believed unable to be prevented from accruing to a Shareholder who might elect not to participate in the Project.

The designation of a particular Project as an Infrastructure Project by the affirmative vote of at least five (5) voting members of the Board of Directors shall be a conclusive and binding determination that the requirements of Section 3.3 (a) and (b) and the above Infrastructure Project Criteria have been satisfied unless a Shareholder or Shareholders shall have commenced arbitration proceedings with respect to the designation, within sixty (60) days, pursuant to Section 7 of this Agreement. The Shareholders shall only be obligated to fund a Project designated as an Infrastructure Project if the further conditions set forth in Sections 3.4 and 3.5 are met.

Projects shall be developed annually pursuant to a moving three (3) year budget cycle. The goal of such a subjects will be to compensate the Corporation for all its direct and indirect costs in connection with the performance of Infrastructure Projects. The annual budget for a given year will be adopted by the Board of Directors on or before December 31, of the preceding calendar year. The budget for National Security Emergency Preparedness ("NSEP") shall be dealt with separately pursuant to certification by the Chief Executive Officer of Bellcore to the Board as to the level of funding necessary for Bellcore's NSEP activities. Except for NSEP, the budgets for Infrastructure Projects shall be subject to the following limitations.

- (a) No budget for Infrastructure Projects shall exceed an aggregate upper dollar level ("Aggregate Peg") established for all Infrastructure Projects to be funded in a given year contents otherwise approved by unanimous vote of the Board.
- (b) In addition to the Aggregate Peg, there shall be separate upper dollar levels established for each Infrastructure Project Category ("Category Pegs" or "Category Pegs").
- (c) As long as the Aggregate Peg, is not exceeded, an affirmative vote of not fewer than five (5) members of the Board is required to authorize a shift of any or all of an Infrastructure Project's budget between Infrastructure Project Categories or to authorize any overrun of the budget applicable to an Infrastructure Project Category, where either action would have the effect of causing any Category Peg to be exceeded.
- (d) Each budget proposed to the Board which does not exceed the Aggregate Peg must be adopted by the affirmative vote of not fewer than five (5) members of the Board of Directors and the Projects therein must satisfy the requirements described in Section 3.3 of this Agreement.
- (e) The Aggregate Peg and each Category Peg shall be an upper dollar level calculated on the basis of a fixed percentage of Bellcore's total budgeted revenues from all sources in the previous calendar year. The percentages to be utilized, which are set forth in Attachment A to this Agreement, shall remain the same from year to year unless the Board votes unanimously to change the percentage used to calculate the Aggregate Peg or, by at least five (5) members of the Board, to change any of the percentages used to calculate the Category Pegs so long as the Aggregate Peg is not exceeded.
- (f) In order to achieve year to year stability for the Infrastructure work, no Peg (Aggregate or Category) in a given year shall be lower than 95% of the previous year's Peg due to a decline in Bellcore's total revenues, except that nothing contained herein shall require that a particular Peg will be reached in any given year unless a sufficient number of Infrastructure Projects are approved by at least five (5) members of the Board.

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portion of the Amounts provided for in the budget for Infrastructure Projects, which portion shall be in direct proportion to the percentage of such Shareholder's ownership of Shares. No Shareholder shall be required, in any calendar year, to make payments pursuant to this Section 3.5 in an aggregate amount which would exceed three and three-tenths percent (3.3%) of the pre-tax income during the previous calendar year of the Shareholder (1 it is one or more Bell Operating Companies) or of all the Bell Operating Companies affiliated with the Shareholder (if it is not one or more Bell Operating Companies) from operations attributable to the provision of exchange telecommunications services and exchange access services (as-these-terms are used and defined in the MFJ and in the orders of the Court relating to the MFJ). The amount of this limitation shall be determined by the certified public accounting firm regularly auditing the Shareholder's books of accounts. Payments of such amounts shall be at the time and in the manner agreed upon by an affirmative vote of at least five (5) members of the Board of Directors. Any default with respect to such payments shall be dealt with as provided in Section 5.

3.6 Elective Projects. The Corporation may undertake to perform any additional Projects for one or more Shareholders authorized by the Board of Directors and legally permissible for the Corporation to perform consistent with Section 3.2. These additional Projects shall be called "Elective Projects." Except as otherwise directed by the unanimous vote of the Board of Directors or as set forth in the Service Agreement, a Shareholder who does not participate in an Elective Project shall not be entitled to the benefit of any work product emanating from that Elective Project or from any other Project which utilizes such work product. Any Shareholder who engages in an Elective Project shall automatically be deemed to have indemnified and held harmless those Shareholders not engaging in such Elective Project.

± 3.7 Funding of Elective Projects. Each Shareholder who agrees to participate in an Elective Projectivith the Corporation shall pay to the Corporation, at such time and in such manner as shall be commercially reasonable, its appropriate share of the amount required to compensate the Corporation for all its direct and indirect costs in connection with the Corporation's performance of such Elective Project. Nothing herein shall be construed as preventing the Board of Directors from adopting any pricing methodology reasonably calculated to recover Bellcore's direct and indirect Project costs. Any Shareholder who dees not agree to participate in an Elective Project prior to the commencement of such Project may do so subsequently by providing notification to Bellcore, provided that in the case of an Elective Project undertaken for a single Shareholder, such Shareholder may specify that such participation shall not be offered to the other Shareholders for a period not to exceed the earlier of (a) eighteen (18) months from the date of delivery of the principal deliverable of the Project or, in the event there is no such deliverable, the termination of the work effort being supported by the Shareholder or (b) twenty-four (24) months from the date of acknowledgment of Project authorization, as set forth in the Service Agreement. A disagreement with respect to the participation by the other Shareholders during such period shall be submitted to the Corporation by any Shareholder in writing within ninety (90) days after such Shareholder has received a description of the affected Project and thereafter shall be resolved by the Board of Directors.

Except as otherwise directed by the unanimous vote of the Board of Directors or as set forth in the Service Agreement, the Shareholder subsequently participating shall pay to the Shareholders participating in the Project an amount fixed at 10% greater than the amount it would have been required to pay to the Corporation if it had participated in the Project from its commencement.

Any default with respect to the payments required by this Section shall be dealt with as provided in Section

3.8 Redesignation of Infrastructure Projects. In the event a Shareholder commences arbitration proceedings pursuant to Section 3.3 hereof, an affirmative vote of at least five (5) members of the Board of Directors may, at any time within sixty (60) days after the initiation of the arbitration, reconsider its

designation of the Project in question as an Infrastructure Project and redesignate it as an Elective Project, i.e., a Project of the type described in Section 3.6 hereof. Such a redesignation shall automatically terminate the arbitration proceedings, relieve the Shareholder or Shareholders voting against the Project from any obligation to fund it, and all the provisions of Sections 3.6 and 3.7 shall apply to such redesignated Project.

### Section 4. Capital Payments.

- 4.1 Authorization: By an affirmative vote of not fewer than five (5) members of the Board of Directors, the Corporation may, from time to time, issue written requests to the Shareholders for advances or additional capital contributions by the Shareholders to the Corporation. Each such advance or contribution is called a "Capital Payment." The amounts of such Capital Payments, the maturity date, interest rate (if any), and other terms and conditions shall be established by an affirmative vote of not fewer than five (5) members of the Board of Directors.
- 4.2 Limitation on Amount. No Shareholder shall be required, in any calendar year, to make Capital Payments in an aggregate amount which would exceed six-tenths of one percent (0.6%) of the pretax income during the previous calendar year of the Shareholder (if it is one or more Bell Operating Companies) or of all the Bell Operating Companies affiliated with the Shareholder (if it is not one or more Bell Operating Companies) from operations attributable to the provision of exchange telecommunications services and exchange access services (as these terms are used and defined in the MFJ and the orders of the Court relating to the MFJ). The amount of this limitation shall be determined by the certified public accounting firm regularly auditing the Shareholder's books of accounts.....
- 4.3 Written Calls. Each written Capital Payment call issued pursuant to Section 4.1 shall contain the following information:
  - (a) the amount of the Capital Payment requested from each Shareholder, which amount shall be in direct proportion to the percentage of such Shareholder's ownership of Shares;

- (b) the purpose forewhich the Capital Payment is to be applied;
- (c) all the material terms and conditions of the Capital Payment; and
- (d) the date on which the Capital Payment shall be made (which date shall not be less than ten (10) nor more than sixty (60) days following the date the call is delivered) and the method of payment, which date and method shall be the same for each Shareholder.

Section 5. Payment Defaults. The Shareholders acknowledge that a default in making the payments provided for in Sections 3.5, 3.7 and 4 (which three types of payments are collectively called "Shareholder Payments") may have extremely harmful effects on the Corporation's business. Therefore, if any Shareholder fails to make any Shareholder Payment when due, such failure shall be an event of default. While an event of default has occurred and is continuing:

- (a) the Shareholder in default shall have none of the rights or authority conferred by this Agreement or Delaware law, except the rights to receive dividends (subject to the lien described in paragraph
   (d) of this Section) and to participate in the management of Infrastructure Projects and Elective Projects with respect to which it is not in default;
- (b) the Shareholder in default shall continue to be subject to all of its obligations under this Agreement, whether such obligations arise before or after any default;
- Payment which is the subject of the event of default. The amount of any Shareholder Payment made an behalf of a defaulting Shareholder shall remain an obligation of the defaulting Shareholder to the contributing Shareholder, and it shall bear interest during the period of default at a rate equal to the corporate base rate per annum published each day by Citibank, N.A., compounded daily. In the event no other Shareholder makes the Shareholder Payment of the defaulting Shareholder, the defaulting Shareholder shall pay interest at such rate to the Corporation for the period of default; and

a nondefaulting Shareholder while makes a Shareholder Payment on behalf of a defaulting Shareholder shall have a liest spon the defaulting Shareholder's remaining interest in the Corporation to secure reimbursement for the defaulted Shareholder payment, interest at the stated rate thereon, and any damages and costs related thereto. The lien may be foreclosed as provided by Delaware law. A Shareholder in default of a Shareholder Payment shall execute and deliver to the Shareholder making the defaulted Shareholder Payment on its behalf a security agreement and financing statement for the amount owing pursuant to this paragraph (d), and shall surrender possession of the certificate for its Share-to-such Shareholder to perfect such lien. Such lien shall --be removed simultaneously upon the curing of the default of the Shareholder Payment and the Share certificate shall thereupon be returned to the Shareholder formerly in default; and no Shareholder in default may be permitted to vote on any matter subject to any vote of the Shareholders, nor may such Shareholder's nominated Director vote on any matter subject to the vote of the Board of Directors, nor may such defaulting Shareholder or Director participate in the management of the Infrastructure Project or Elective Project with respect to which it is in default. Whenever unanimity or assent by Shareholders holding a particular share of interest in the Corporation (or the Directors nominated by such Shareholders) is required by the terms of this Agreement, the calculation of such interests shall be made without reference to any Shareholder in any such default (or the Director nominated by any such Shareholder).

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Notwithstanding any other provision of this Agreement to the contrary, no Shareholder shall be deemed to be in default under this Agreement by reason of the failure to make any Shareholder Payment during the pendency of an arbitration proceeding pursuant to Section 7 (or any litigation arising out of such arbitration) challenging the determination that the Project or business activity related to that Shareholder Payment qualifies as an Infrastructure Project.

Section 6. Transfers or Disposition of Shares.

- 6.1 Restrictions. Nor Shareholder shall surrender, sell or otherwise dispose of its Share, except as hereinafter provided and except that each Shareholder shall have the right (a) to assign all or part of its Share to one or more of its Related Entities, and (b) to pledge its Share to one or more of its Related Entities, provided that such entities agree in writing that the Share so pledged shall not be sold or disposed of except in accordance with this Agreement.
- 6.2 Sale of Shares. If a Shareholder desires to sell or otherwise dispose of its stock, it shall give the Corporation and the other Shareholders written notice (hereinafter referred to as "Notice") of its desire. This Notice must be given at least three (3) years prior to the effective date, which may only be the first day of a calendar year. The Notice need only state that the Shareholder desires to dispose of its Share. No sale or disposition of less than one Share (except as provided in Section 6.1) shall be permitted.
- 6.3 Successive Notices. The Notice of a desire to sell or otherwise dispose of a Share can be revoked at any time before its effective date, and a Notice given subsequent to a prior Notice shall revoke the prior Notice and the effective date of the new Notice shall be computed as provided above on the basis of the date of the subsequent Notice. On and after the effective date of a Notice, any Shareholder shall have the right to sell, surrender, or otherwise dispose of its Share as hereinafter provided in this Section 6.
- Notice, the Shareholder giving the Notice shall inform the Corporation in writing of the name and address of the person or persons desiring to or who will acquire such Share and the terms and conditions of the proposed sale, assignment or disposition, including the terms and conditions of any bona fide offer to purchase such stock. Whereupon:
  - (a) The Corporation shall have the first right to acquire all or any portion of such stock, but only upon substantially the same terms and conditions as any such bona fide offer to purchase the stock for cash; provided, however, that if such contemplated disposition is not pursuant to a bona fide offer to purchase the stock for cash, then the Corporation may acquire the stock at a reasonable price and

upon such reasonable terms and conditions as may be determined by the Board of Directors;

- days after it has received the information relating to the terms and conditions of the proposed sale, assignment or disposition, then any Shareholder or group of Shareholders (excluding the selling Shareholder) shall have the next right to acquire the Shareholder's interest in the Corporation on the same terms and conditions as the Corporation's first right. Such Shareholder or group of Shareholders shall exercise the right to acquire no later than one hundred ten (110) days after the Corporation has originally received Notice of the terms and conditions of the proposed sale, assignment or disposition. If more than one Shareholder or group of Shareholders elects to acquire a Share, the selling Shareholder may accept the offer of its choice;
- (c) The Corporation or any Shareholder or group of Shareholders shall give written Notice of intent to acquire such stock. If the Corporation and the non-selling Shareholders do not in the aggregate exercise a right to acquire all the stock, then the selling Shareholder may sell, assign or dispose of its stock on the terms and conditions specified in the Notice to the Corporation, provided that the Shareholder effect such disposition within the time and constraints set forth below;
- (d) Any sale, assignment or other disposition of stock pursuant to this Section 6.4 must be a disposition of the entire equity interest of the Shareholder. As a condition of acquisition, the acquirer must engage in the provision of exchange telecommunications and exchange access functions as defined in the MFJ and, in writing, must acknowledge its qualification and agree to be bound by this Agreement.
- 6.5 Surrender of Stock to the Corporation. A Shareholder may voluntarily surrender its stock to the Corporation if Notice is given pursuant to Section 6.2 hereof and the time constraints contained therein are met. Upon voluntary surrender of stock of the Corporation pursuant to this Section, any withdrawing Shareholder shall transfer all its stock to the Corporation for cancellation.

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6.6 Failure to Dispose of Stock. The Shareholder shall have one hundred twenty (120) days from the effective date of its Notice to dispose of its Share in accordance with this Agreement. If the disposition of a Share is not completed within the one hundred twenty (120) day period (exclusive of any days during the pendency of any arbitration proceeding pursuant to Section 7 hereof with reference thereto) then the Notice shall be deemed void and ineffective and, in such event, a new Notice shall be effective only after the date calculated as provided in Section 6.2.

- 6.7 Intrashareholder Transfers. The foregoing provisions of this Section 6 notwithstanding, any Shareholder may at any time sell its Share to any other Shareholder on such terms as shall be mutually agreed upon between or among such Shareholders.
- 6.8 Rights and Obligations of Successors. Any person or entity to whom a Share is transferred in accordance with this Agreement shall execute a counterpart of this Agreement simultaneously upon the transfer and shall succeed to all the rights and obligations of such person's or entity's transferor. The obligation of any such person or entity which is not a Bell Operating Company or an affiliate of a Bell Operating Company with respect to the payment limitations of Sections 3.5 and 4.2 shall be determined by reference to the amounts which would be payable if the last Bell Operating Company or last affiliate of a Bell Operating Company which owned such Share were still the owner of such Share.

To enable the payment limitations of Section 3.5 and 4.2 to be easily determinable in the event of a transfer to a person or entity which is not a Bell Operating Company or an affiliate thereof, upon any such transfer the transferring Bell Operating Company or affiliate thereof shall agree in writing with the Corporation that, so long as this Agreement shall be in force, it will make available to the Corporation all accounting records reasonably necessary or desirable to determine such payment limitations.

The transfer of a Share to the Corporation shall not confer upon the Corporation the right to nominate a Director, vote such Share, be counted with respect to any votes required or permitted of the

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Shareholders under this Agreement or confer any rights or obligations on the Corporation which it does not otherwise have under this Agreement.

All the holders, whether by first or any successive transfer, of the Share or any fractional portion of the Share of any of the Shareholders originally named in this Agreement shall be deemed to be but one shareholder (and a "Shareholder") for all purposes of this Agreement, including but not limited to the provisions of Sections 2.1 and 2.5.

Section 7. Arbitration.

7.1 General Provision. Except as specified to the contrary in this Section 7, any controversy or claim among the Shareholders relating to the qualification of a particular Project as an Infrastructure Project, shall be settled by arbitration in accordance with the Rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

7.2 Special Time Rules. All arbitration proceedings shall be handled in an expeditious manner and the parties to the proceeding shall use good faith efforts to submit all submissions to the arbitrator(s) within sixty (60) days of initiating the proceeding. Any party that intends to proceed to arbitration on any given Infrastructure Project must notify all other parties within thirty (30) days after the adoption of the first or any subsequent annual budget providing for funding for an Infrastructure Project. Any arbitration proceeding challenging the classification of a Project as an Infrastructure Project shall be initiated no sooner than thirty (30) days and no later than ninety (90) days from the date of the above recited notice.

7.3 Antitrust Standard. Any dispute with respect to whether a proposed activity complies with the antitrust criterion described in Section 3.3 (b) shall be determined in accordance with the following standard: whether the proposed activity is of such a nature that it is likely to facilitate agreements or understandings which constitute a violation of the MFJ, any orders of the Court relating to the MFJ or any

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other applicable federal or state antitrust laws.

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7.4 Compliance by Corporation. Even though the Corporation may not be a party to an arbitration proceeding, the Shareholders and Directors will cause the Corporation to take or refrain from taking whatever actions may be necessary consistent with the award resulting from any such arbitration.

Section 8. Legend on Certificate. Each certification for a Share or Shares will be conspicuously stamped or otherwise imprinted on its face with a legend in substantially the following form:

THE SECURITY REPRESENTED BY THIS CERTIFICATE IS SUBJECT TO THE PROVISIONS OF A SHAREHOLDERS' AGREEMENT DATED AS OF OCTOBER 2, 1984, AMONG THE CORPORATION AND THE SHAREHOLDERS OF THE CORPORATION, WHICH AGREEMENT INCLUDES NUMEROUS RESTRICTIONS, INCLUDING RESTRICTIONS ON SHAREHOLDER QUALIFICATION, TRANSFERS OF SHARES AND DISSOLUTION OF THE CORPORATION. BY ACCEPTANCE OF THIS CERTIFICATE, THE HOLDER HEREOF AGREES TO BE BOUND BY THE TERMS OF SUCH AGREEMENT.

Section 9. Audit. A Shareholder shall have the right to conduct an independent audit of the books, records, and operations of the Corporation, including records relating to Elective Projects undertaken for such Shareholder or any Related Entity of such Shareholder. The Corporation shall cooperate in making such books, records and other necessary information available upon reasonable notice.

Section 10. Amendments and Termination. This Agreement may be amended or modified only by the unanimous written agreement among the Shareholders. This Agreement shall continue for the life of the Corporation unless sooner terminated by written agreement among at least five (5) Shareholders. This Agreement shall not terminate merely because a Shareholder sells its Share.

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Section 11. Corporate Consent. The Corporation acknowledges its consent to the terms of this Agreement by the execution hereof.

Section 12. Severability. In the event any provisions of this Agreement are found to be void by any court of competent jurisdiction, the remaining provisions of this Agreement, whether relating to similar or dissimilar subjects, shall nevertheless be binding with the same effect as though the void provisions were deleted. Without otherwise limiting the scope of this Section, if the notice periods provided for in Section 6 are deemed by any court of competent jurisdiction to be too lengthy for the purposes set forth therein, such periods shall then be deemed to be the maximum number of years permitted by law.

Section 13. Governing Law. This Agreement shall be subject to, governed by and interpreted in accordance with the laws of the State of Delaware.

Section 14. Notices. All notices required by the Agreement shall be sent by certified mail, postage paid to the principal place of business of the Corporation and, in the case of a Shareholder, to the address of such Shareholder as it appears on the records of the Corporation. Any such mailing shall constitute full and adequate notice, and shall be deemed delivered when postmarked.

Section 15. Binding Effect and Benefits. Except as otherwise provided herein, the terms of this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns when Shares are transferred in accordance with the terms of this Agreement, and the obligations thereof shall be binding upon any person to whom any of the Shares of the parties are transferred, even if in violation of the provisions of this Agreement, and upon the successors and assigns of each such party.

Section 16. Remedies for Violations. The Shares cannot be readily purchased or sold on the open market. For this and other reasons, the parties hereto will be irreparably damaged in the event that this Agreement is not fulfilled by any party. In the event of any controversy concerning any right or obligation with respect to the Transfer of Shares, such right or obligation shall be enforceable in a court of

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equity by a decree of specific performance.

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Section 17. Entire Agreement. This Agreement contains the entire understanding and agreement among the parties hereto, and supersedes any prior agreements among the parties pertaining to the Corporation or the Shares. There are no representations, warranties, promises, covenants or understandings other than those herein expressly set forth.

Section 18. Additional Parties. With the approval of the Corporation, anyone in whose name Shares are registered may become a party to this Agreement by executing a duplicate original copy thereof.

Section 19. Guarantees of the Obligations of Non-BOC Shareholders. If a Shareholder is not one or more Bell Operating Companies, a Bell Operating Company which is affiliated with that Shareholder or another affiliated entity abceptable to the Board of Directors shall acknowledge and guarantee in writing all the obligations of such Shareholder under this Agreement. If a Purchaser is neither a Bell Operating Company nor an affiliate of a Bell Operating Company, a similar guarantee may be required from the appropriate affiliate of the Purchaser simultaneously upon the Transfer of a Share to the Purchaser. Any guarantee pursuant to this Section 19 shall be in the form approved by a majority of the entire Board of Directors, which approval may not be unreasonably withheld.

Section 20. Singular and Plural. Unless the context clearly requires otherwise, words used in this Agreement in singular form shall be deemed to include the plural form, and words used in the plural form shall be deemed to include the singular form.

Section 21. Captions. The captions in this Agreement are for convenience only and in no way define, limit or describe the scope or intent of any provision of this Agreement.

Section 22. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same

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instrumeril.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be signed by their duly Authorized Representatives.

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Ameritech Services, Inc. 1900 East Golf Road Schaumberg, Illinois 60173 12-30-87 Bruce R. DeMaeyer DATE: Bell Atlantic Network Services, Inc. 1310 North Court House Road Arlington, Virginia 22201 BY: Philip A. Campbell DATE: BellSouth Services Incorporated 600 North 19th Street Birmingham, Alabama 35203 DATE: \_\_12-28-87 Hugh B. Jacks NYNEX Service Company 120 Bloomingdale Road White Plains, New York 10605 12-29-87 P. D. Covill DATE: Pacific Bell 140 New Montgomery Street San Francisco, California 94105 1-5-88 M. A. Kaplan DATE: . Southwestern Bell Telephone Company 1010 Pine Street St. Louis, Missouri 63101 12-31-87 C. E. Foster DATE:

The Mountain States Telephone and Telegraph Company 931 Fourteenth Street, Suite 1300 Denver, Colorado 80202 DATE: \_1-18-88 W. J. Wade Northwestern Bell Telephone Company 1314 Douglas On-The-Mall D. Omaha, Nebraska 68102 DATE: - ... 18-88 .... W. J. Wade --Pacific Northwest Bell Telephone Company 1600 Bell Piaza Seattle, Washington 98191 1-18-88 W. J. Wade DATE: .

Bell Communications Research, Inc. 290 West Mt. Pleasant Avenue Livingston, New Jersey 07039

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BY: R. J. Marano DATE: 12-10-87

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ATTACHMENT
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## CRITERIA FOR INFRASTRUCTURE WORK CLASSIFICATION

The Infrastructure Work of Bellcore shall consist only of those Projects which:

- a. are within at least one of the attached definitions of applied research, standards and architecture, or generic technology procurement support,
- b. and are judged to be potentially of substantial benefit to all of the Owner-Clients,
- c. and are of such a nature that this substantial benefit is believed unable to be prevented from accruing to an Owner-Client who might elect not to participate in the project,
- d. or are mandated to Bellcore by federal regulatory, judicial or legislative bodies.

The implementation of the above criteria shall be as follows. Each of the three work categories in (a) above are assigned an upper dollar level Pegged as a percent of Bellcore's total annual revenue from all sources. For Projects above this level, agreement to fund a Project will be by unanimous affirmation by the Board of Directors. For all Projects below this level, designation as meeting the criteria and agreement to fund will be by at least five Board members. To help attain year-over-year stability in these work categories, the upper dollar level Peg will always be kept at a dollar level at least 95% of the previous year's Peg. (It should be noted that this Peg will not be reached if insufficient Projects in a given year are affirmed by at least five Board members.)

Actual Pegs expressed as percentages of Bellcore's total annual revenues, derived from the 1988 program "core" designations, are listed in the table below. The final percentages applicable to the five-year agreement beginning January 1, 1988 have been derived from the core categories of the 1988 Bellcore budget as approved by the Board in January 1988. These Pegs will be used with each view of the subsequent year budget for Bellcore, or for any future views. NSEP is not included, as it is covered separately by Bellcore's CEO certification to the Board of Directors.

Applied Research .	٠	14.3%
Standards & Architecture		13.3%
Generic Technology Procurement Support		9.1%
		36.7%

## Definitions of Infrastructure Categories of Work

## Applied Research

Research in relevant scientific disciplines and technologies for potential enhancements of current or evolution toward new exchange and exchange access telecommunications services. Such research ranges from theoretical analyses/models to prototype demonstrations of technical feasibility. The work provides for the development of a leading edge knowledge base in such key areas as optical and solid state sciences, materials research, communication theory, mathematics and economics, computer software technology, artificial intelligence, network technologies and systems, and information age service capabilities. Emphasis is placed on applications to current and future needs in networks, services and operations.

#### Standards and Architecture

Fundamental technical support for the establishment of public standards and related network and computing

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architectures for efficient integration of evolving technologies in the Owner-Clients' networks, service capabilities, operations and computer systems used in their provision of exchange and exchange access telecommunications products and services. This work includes (a) industry standards activities bearing on compatibility between and among networks, customer premises equipment, network components and supporting systems; (b) the conceptualization, planning, analysis, and related testing of fundamental compatible network and operating architectures, capabilities and systems; (c) support for language and computing environment standards; (d) the conceptualization of new service capabilities; (e) analysis for Belleore's use of the potential impacts on standards and architecture, and the services supported by the network, of industry issues; (f) support for billing and financial industry activities; (g) fire and safety standards activities; and (h) logistics related equipment standards such as for bar codes.

#### Generic Technology Procurement Support

Basic support enabling the Owner-Clients to obtain, from multiple industry sources, high quality applications of technology to implement the growth and evolution of their networks (switching, distribution, interoffice and operations systems/network equipment interface system, as well as apparatus and materials). This work includes: (a) the formulation and promulgation of generic requirements for network equipment and software which are made available through an open communications and interaction process to all potential vendors of new industry-wide network capabilities (e.g., development and issuance of Technical Advisories and Technical References as well as planning for and conducting Technical Requirements Industry Forums); (b) the development of the basic capabilities to carry out the technical analyses which determine whether vendor offered products are likely to meet the generic requirements and Owner-Client expectations with regard to features, functions, quality and reliability, and (c) the establishment of basic common principles, methods and standards for quality surveillance.

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Service

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#### SERVICE AGREEMENT

THIS AGREEMENT ("this Service Agreement") is entered into as of January 1, 1988 among the following entities (sometimes referred to herein collectively as "the parties" and individually as a "party") which are Bell Communications Research, Inc. ("Bellcore") and Ameritech Services, Inc.; Bell Atlantic Network Services, Inc.; BellSouth Services Incorporated; NYNEX Service Company; Pacific Bell; U S WEST Advanced Technologies, Inc. as agent for The Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone Company; and Southwestern Bell Telephone Company (herein collectively referred to as "Owner-Clients" and individually as an "Owner-Client").

WHEREAS, on August 24, 1982, the United States District Court for the District of Columbia ("Court") entered a Modification of Final Judgment (the "MFJ") in United States vs. Western Electric, Civil Action No. 82-0192; and

WHEREAS, Bellcore has been established pursuant to Section I (B) of the MFJ which provides that the Bell Operating Companies (the "BOCs"), as defined therein, may "support and share the costs of a centralized organization for the provision of engineering, administrative and other services which can most efficiently be provided on a centralized basis" and permits Bellcore to furnish such services primarily for the support of the BOCs in their provision of exchange telecommunications and exchange access services, as those terms are defined in the MFJ, and

WHEREAS, the Owner-Clients desire to obtain the services of Bellcore and Bellcore desires to provide the services to the Owner-Clients, consistent with Bellcore's primary purposes under the MFJ;

NOW, THEREFORE, in consideration of the terms and conditions contained herein, the parties to this Service Agreement hereby agree as follows:

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Article 1. - Definitions

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As used herein:

- indirectly a majority of outstanding voting shares (other than directors' qualifying shares) or interests of any such corporations or partnerships (such person owning such shares or interests being hereinafter called the "Parent"); (ii) any corporation or partnership of which a majority of the outstanding voting shares (other than directors' qualifying shares) or interests are owned directly or indirectly by the Parent; and (iii) any other corporation or partnership of which a majority of the outstanding voting shares (other than directors' qualifying shares) or interests are owned directly or indirectly by such corporation or partnership. Ownership of voting shares or interests by a person for the purpose of this definition include shares or interests owned directly or indirectly by one or more Affiliates of such person.
- 1.2 "Authorization Ceiling" means the amount of billing of fully loaded costs under a Work

  Authorization that cannot be exceeded without additional authorization from the Owner-Client.
- 1.3 "Authorized Representative" means any individual designated by an Owner-Client's member of the Board of Directors or by his or her designee to take action on the Owner-Client's behalf on matters provided for within this Service Agreement. Designation of all such Authorized Representatives shall be provided in writing to Bellcore's Divisiand Managery Contract Administration and shall include for each identified individual a description of the specific activities as authorized in this Service Agreement for which such individual may commit the Owner-Client.
- 1.4 "Bellcore TEC Agreement" means the Bellcore TEC Agreement among the parties thereto effective as of January 1, 1986, as amended from time to time.

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#### SERVICE AGREEMENT

THIS AGREEMENT ("this Service Agreement") is entered into as of January 1, 1988 among the following entities (sometimes referred to herein collectively as "the parties" and individually as a "party") which are Bell Communications Research, Inc. ("Bellcore") and Ameritech Services, Inc.; Bell Atlantic Network Services, Inc.; BellSouth Services Incorporated; NYNEX Service Company; Pacific Bell; U S WEST Advanced Technologies, Inc. as agent for The Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone Company; and Southwestern Bell Telephone Company (herein collectively referred to as "Owner-Clients" and individually as an "Owner-Client").

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WHEREAS, the Owner-Clients desire to obtain the services of Bellcore and Bellcore desires to provide the services to the Owner-Clients, consistent with Bellcore's primary purposes under the MFJ;

NOW, THEREFORE, in consideration of the terms and conditions contained herein, the parties to this Service Agreement hereby agree as follows:

- 1.5 "Board of Directors" or "Board" means the Board of Directors of Bellcore.
- 1.6 "Deliverable" means any tangible item (such as a report or other document, computer or system software, data base, prototype, etc.) produced or to be produced by Bellcore in the course of a Project and delivered or to be delivered to an Owner-Client pursuant to the agreed description of such Project.
- 1.7 "Firm Quoted Price" means a specific price charged to an Owner-Client for participation in a Multi-Client or Client-Specific Project, which price shall be set in accordance with the methodology described in Article 6.4(a).
- 1.8 "Intellectual Property Agreement" means the Intellectual Property Agreement among the parties thereto, effective as of January 1, 1984, as amended from time to time.
- 1.9 "Participant" means an Owner-Client that funds all of, or contributes to the funding of, any Elective Project.
- 1.10 "Project" means the minimum unit of Bellcore work, including services and Deliverable(s), which is available to Owner-Clients for funding as set forth in Section 3.1 of the Shareholders' Agreement.
  - (a) "Infrastructure Project" means any Project designated as such in conformance with Section 3.3 of the Shareholders' Agreement.
  - (b) "Elective Project" means any Project that is not an Infrastructure Project and which one or more Owner-Chients may fund.
    - (1) "Usage-Sensitive Project" means an Elective Project for which costs are charged to individual Owner-Clients based on usage.
      - (i) For purposes of this definition, Usage-Sensitive Projects may include Projects, such as Technical Analysis, where an annual funding commitment is established by each Owner-Client prior to the commencement of the Project

and is paid for through equal monthly billings. The usage is measured by Deliverables which are issued to each Owner-Client on an as requested basis and credited against that Owner-Client's funding commitment. An Owner-Client may increase its annual funding commitment for such Projects through written notification to Bellcore by an Authorized Representative.

- (2) "Multi-Client Project" means an Elective Project that is not usage-sensitive and that is funded by two or more Owner-Clients.
- (3) "Client-Specific Project" means an Elective Project that is funded by one Owner-Client.
- 1.11 "Project Dependency" means a relationship between two Projects (called for illustrative purposes here Projects A and B) such that Project B requires the utilization of Project A Deliverable(s) or other identifiable work product(s) in order to support the completion of Project B Deliverable(s). Project Dependency may exist between Projects undertaken in the same year or in different years. Project Dependency as used in this Service Agreement, however, shall not include Bellcore's internal reuse in whole or in part, of Software (as defined in the Intellectual Property Agreement) developed under one or more Projects as it applies to Software being developed under another Project.
- 1.12 "Project Profile" means the written description of a Project, which Bellcore submits to each Owner-Client as documentation of the Project commitment agreed upon between Bellcore and the funding Owner-Client(s). Project Profiles may be supplemented by descriptions contained in Work Authorization(s).
- 1.13 "Shareholders' Agreement" means the Shareholders' Agreement among the parties thereto dated as of October 2, 1984, as amended from time to time.
- 1.14 "Work Authorization" means the ordering of work from Bellcore by an Authorized Representative. Written confirmation from an Authorized Representative of a Work Authorization shall be

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furnished to Bellcore as specified in Article 6.

Article 2. - Scope of Agreement and Services Rendered

2.1 This Service Agreement applies to all Infrastructure Projects and Elective Projects undertaken by Bellcore for an Owner-Client. All work Bellcore performs for any Affiliate of an Owner-Client shall be subject to the terms and conditions of this Service Agreement. Bellcore may perform work for such Affiliate if authorized in writing by an Authorized Representative of the Owner-Client.

2.2 Bellcore agrees to perform the Projects offered to and committed for by an Owner-Client in consideration for the Owner-Client's agreement to fund such Projects, all in accordance with the terms of this Service Agreement. The rights and obligations with respect to intellectual property, whether related to these Projects or otherwise, are as set forth in the Intellectual Property Agreement, including, but not limited to, such matters as confidentiality and conditions of use.

#### Article 3. - Term of Agreement

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3.1 The term of this Service Agreement shall be for five (5) years beginning January 1, 1988 and shall become effective for all Projects begun or in progress on or after such date. A review of the terms and conditions of this Service Agreement shall commence no later than January 1, 1991 by a task force of Owner-Clients and Belleore representatives or by such other review process as the Board may designate.

3.2 Notwithstanding the foregoing, an Owner-Client shall be deemed to have withdrawn from this Service Agreement upon the sale or transfer of its Share of stock in Bellcore pursuant to and in accordance with Section 6 of the Shareholders' Agreement, effective as of the date that such Owner-Client ceases to be a Shareholder. In such event, said Owner-Client shall cease all further participation in all Projects under the terms of this Service Agreement as of the date that it ceases to be a Shareholder.

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Article 4. - Budget Commitment Process, Project Profiles and Project Attachment (s.)

4.1 Project commitments occurring during the annual budget cycle shall be handled as follows:

(a) Preliminary Project Profiles

Bellcore shall provide to all Owner-Clients preliminary Project Profiles pertaining to all Projects offered during the annual budget cycle for the applicable calendar year. Such Project Profiles may be aggregated by Bellcore and the Owner-Client into Project groupings particular to that Owner-Client.

(b) Owner-Clients' Intentions

In accordance with a schedule established by the Board, each Owner-Client shall signify in writing to Bellcore's Division Manager, Corporate Budgets those Projects, or the aggregation of Project groupings particular to the Owner-Client, which it intends to fund for the established duration of each Project. At the request of the Owner-Client, Bellcore will assist the Owner-Client in the aggregation of Projects into Project groupings particular to that Owner-Client which the Owner-Client intends to fund and which Bellcore shall bill under a special billing arrangement ("Special Billing Arrangement"). Such Special Billing Arrangements shall be provided for the administrative convenience of the parties and shall be carried out consistently with the terms and conditions of this Service Agreement.

(c) Budget Submission to Board

Bellcore will submit to the Board for its approval no later than the October Board meeting, pursuant to a schedule established by the Board, a calendar year budget (annual budget), covering Projects for the succeeding calendar year which the Owner-Clients have indicated to Bellcore an intention to fund during the annual budget cycle

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adopted by the Board.

(d) Budget Approval and Project Commitment

The obligations for Owner-Client Project funding and Bellcore's performance of the work specified for such Projects shall be effective upon approval of the annual budget by the Board. The annual budget, as approved by the Board, shall become effective on January 1st of each year. Projects may be added, terminated or amended during the course of the calendar year (subsequent to the applicable budget cycle) in accordance with the procedures set forth in Article 5 and Article 6 of this Service Agreement.

- 4.2 Following Project approval, Bellcore will furnish within a reasonable time to all Owner-Clients the following documentation in connection with all Projects it offers under this Service Agreement:
  - (a) Project Attachment(s) as follows:

A list showing all the Projects which the Owner-Client receiving that list will fund in that calendar year pursuant to the budget process specified in Article 4.1 (referred to as "Project Attachment(s)"). Firm Quoted Prices for Projects or estimates of fully loaded costs for Projects, whichever may be applicable, selected by Owner-Clients for each calendar year, will be provided to Owner-Clients in conjunction with the Project Attachment for that calendar year.

(b) Project Profiles and descriptions as follows:

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- (1) Final Project Profiles of all Infrastructure Projects upon Board approval:
- (2) Final Project Profiles of Elective Projects, including Client-Specific Projects, authorized upon Board budget approval thereof pursuant to Article 4.1(d), except that no Owner-Client's proprietary information shall be distributed to any other Owner-Client;

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3) Final Project Profiles of work authorized subsequent to the annual budget cycle, on 
a periodic basis, except that no Owner-Client's proprietary information shall be distributed to any other Owner-Client.

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(4) Descriptions of authorized specific work performed for Southern New England

Telephone Company, or Cincinnati Bell Inc. or any entity other than the Owner
Clients or their Affiliates.

#### Article 5. - Infrastructure Projects

#### 5.1 Budgeting

The budgeting for Infrastructure Projects and the Owner-Clients' funding of Infrastructure Projects, whether committed for during the annual budget cycle or subsequent to it, shall be accomplished pursuant to the terms set forth in Section 3.4 and Section 3.5 of the Shareholders' Agreement, respectively. The Owner-Clients agree to fund all Infrastructure Projects approved under the terms of the Shareholders' Agreement and charges for such Projects shall be included on the monthly bills issued to each Owner-Client.

#### 5.2 Governance

One or more governance councils ("Council" or "Councils"), as determined by the Board, shall be established and comprised of an officer level representative from each Owner-Client, with a Chairman elected annually from the Owner-Client members and Bellcore shall appoint a non-voting member as executive secretary to provide any needed staff support and coordinate Bellcore inputs and Owner-Client(s) requests. The Council(s) shall have the responsibility for formulating and directing the Infrastructure Projects, including but not limited to:

(a) screening all proposed Infrastructure Projects and recommending designation as

Infrastructure Projects for Board approval in accordance with the criteria set forth in

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- (b) providing oversight of ongoing Infrastructure Projects;
- deciding during the current budget year to shift a portion of an Infrastructure Project's budget to another Infrastructure Project, new or existing, as long as no Category Peg (as that term is defined in Section 3.4 of the Shareholders' Agreement) is exceeded. The Council with jurisdiction may, by at least five (5) votes, also make a portion of funds available from one or more Infrastructure Projects for use in an Elective Project(s), new or existing. If a Category Peg is exceeded, budget shifts for Infrastructure Projects shall be treated as described in Section 3.4 of the Shareholders' Agreement. Further, such budget shifts shall be subject to the parameters set forth in Appendix A to this Service Agreement;
- (d) deciding during the current year to terminate an Infrastructure Project by at least five

  (5) votes of the Council with jurisdiction over the Project; provided, however, that any

  Owner-Client may submit a decision by the Council regarding termination to the Board

  for final resolution. The Council with jurisdiction may assign any remaining funds or

  portion thereof to another Infrastructure Project, new or existing, as long as no Category

  Peg is exceeded. The Council with jurisdiction may, by at least five (5) votes, also make

  available any remaining funds or portion thereof to an Elective Project(s), new or

  existing. If a Category Peg is exceeded, budget shifts for Infrastructure Projects shall be

  treated as described in Section 3.4 of the Shareholders' Agreement. Further, such

  budget shifts shall be subject to the parameters set forth in Appendix A to this Service

  Agreement; and
- (e) establishing advisory groups for specific subject areas.

In addition to the responsibilities of the Council(s) for governance pertaining to Infrastructure Projects, the Council(s) shall have oversight responsibility for Bellcore TEC and for such other areas as the

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Board determines. The Council's) shall assume the role of the Bellcore TEC Council as defined in the Bellcore TEC Agreement.

#### 5.3 Project Overruns

An Infrastructure Project's annual budget may be overrun as long as Bellcore provides timely written notice to all Owner-Clients and none of the Category Pegs nor the Aggregate Peg are exceeded, and further, as long as such overrun does not exceed the amounts set forth in Appendix A to this Service Agreement. Any overrun exceeding a Category or Aggregate Peg must be dealt with in accordance with Section 3.4 of the Shareholders' Agreement. Further, an overrun exceeding the limits set forth in Appendix A to this Service Agreement shall be authorized by at least five (5) members of the Board.

## Article 6. - Elective Projects

## 6.1 (a) Individual Negotiations for Bellcore Offering

Bellcore shall negotiate with each Owner-Client individually with respect to that Owner-Client's commitments to the funding of Elective Projects. Each Bellcore offering to an Owner-Client may consist of one or more Projects, including but not limited to combinations of Multi-Client Projects and Client-Specific Projects, as are necessary to meet the requirements of that Owner-Client. However, except as provided in Article 6.1(c) herein, the parties agree that Bellcore shall not sell or license to an Owner-Client individual Deliverables or components of a Project.

## (b) Project Dependency

In order to implement the Project Dependency requirement of Section 3.6 of the Shareholders' Agreement, Bellcore will use its best efforts to specify in advance of the funding commitment whether a Project ordered by any Owner-Client is dependent upon any other Project's). Where Bellcore identifies that there is a Project Dependency between a desired Project (for this purpose, Project "B") and one or more other Projects (for this purpose, Project "A") the Owner-Client agrees that it must participate in the funding of Project A in order to participate in Project B. If the required Deliverable(s) of Project A are already in the public domain, then the Project Dependency requirements of this provision shall not apply.

#### (c) Late Notice of Project Dependency

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In the case of a Project Dependency which Bellcore fails to identify in advance of the funding commitment, but which is discovered after the Owner-Client has made its commitment to fund Project B, Belicore shall immediately notify the Owner-Client of the Project Dependency, whereupon the Owner-Client may in its discretion withdraw from Project B or remain in Project B and either (i) buy-in to Project A; or (ii) pay a royalty or license fee for the Deliverable(s) or use of the tangible resources of Project A, utilized in Project B, which were produced prior to the end of the calendar month in which the late notice of Project Dependency is received by the Owner-Client and participate thereafter in Project A as a full Project Participant. The Owner-Client shall then continue to fund Project A as a Project Participant as long as there continues to be a Project Dependency between Projects A and B and the Owner-Client remains a Participant in Project B. The royalty or license fee determined by Bellcore shall be calculated on the same basis as is utilized in calculating the price to an entity that is neither an Owner-Client nor an Affiliate and shall take into account the market value of the affected Project A Deliverable(s) or resources. Such royalty or license fee revenues to the Participants in Project A shall be distributed in proportion to their participation for Projects based on fully loaded costs, and shall be handled in accordance with Article 6.8(c) for Projects based on Firm Quoted Price.

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- (2) The Owner-Client must notify Bellcore in writing of its intention, within thirty (30) days of receipt of notice of such Project Dependency and estimated price, to either (i) withdraw from Project B, (ii) buy-in to Project A or (iii) pay the royalty or license fee applicable for use of the identified Project A Deliverable(s) or tangible resource(s) produced during the period specified herein and participate thereafter in the funding of Project A as a full Project Participant. Otherwise the Owner-Client will be deemed to have elected to remain in Project B and buy-in to Project A:
- (3) In the event that the Owner-Client elects to withdraw from Project B and no Deliverable(s) have been delivered to such Owner-Client to date, the Owner-Client may receive a refund of its payment(s) made for Project B to date with interest (as such interest is calculated in Article 7.6 of this Service Agreement). In the event that one or more Deliverables have been delivered to the Owner-Client, the Owner-Client may withdraw, effective upon full payment of monies due and owing to the date it receives notice of Dependency.

#### 6.2 Usage-Sensitive Project Work Requests

All Usage-Sensitive Projects shall be described in writing in the applicable Project Profiles. All work requested under Usage-Sensitive Projects shall be ordered as needed by an Authorized Representative of the Owner-Client. Usage-Sensitive Projects committed to during the annual budget cycle shall be listed on the Project Attachments as described in Article 4.2. Procedures for ordering work under the Bellcore TEC Agreement shall continue in accordance with the methodology described in the Bellcore TEC Agreement.

6.3 Elective Project Commitments Outside Annual Budget Cycle

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An Owner-Client shall signify its intent to authorize the funding of Elective Projects other than those Projects approved during the annual budget cycle through the execution of Work Authorizations by an Authorized Representative. The Work Authorizations may pertain to Projects or groups of related Projects as the case may be.

- (a) Any new Elective Projects, except Client-Specific Projects which are treated pursuant to Article 6.3(b), that require funding in addition to the applicable authorized annual budget (as defined in Article 4.1(d)) and that do not exceed the parameters set forth in Appendix A to this Service Agreement, may be established at any time during the calendar year with the approval of at least two (2) Owner-Clients through an executed Work Authorization from each Owner-Client's Authorized Representative and the written approval of Bellcore's Chief Executive Officer or designee. Such executed Work Authorization from each Owner-Client shall be sent to Bellcore's Division Manager, Corporate Budgets.
- (b) A new Client-Specific Project may be established at any time during the calendar year if requested by an Owner-Client's Authorized Representative through an executed Work Authorization and agreed to by Bellcore. The parties agree that the signing of a Work Authorization by the Authorized Representative of the Owner-Client and written acknowledgment by Bellcore's Division Manager, Contract Administration shall be necessary to commit the Owner-Client to fund the Client-Specific Project referenced therein and to commit Bellcore to perform the work described in the associated Project Profiles. Further, in order to improve Bellcore's ability to respond to certain requests for Client-Specific work and to allow for quick processing of each request involving consultation services where the price of such request is anticipated to be less than \$100,000, an Owner-Client may elect to establish blanket Work Authorization(s). Such blanket Work Authorization(s) may cover any aggregate amount as determined by the Owner-Client, except that no individual request for work thereunder may exceed

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\$100,000. If the Owner-Client establishes such blanket Work Authorization, individual requests thereunder may be submitted to Bellcore by any Authorized Representative designated by the Owner-Client for this specific purpose.

#### 6.4 Pricing

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The pricing of Elective Projects shall be as follows:

- (a) Multi-Client and Client-Specific Projects that are not usage-sensitive shall be priced on the basis of Firm Quoted Price unless otherwise determined by the Board pursuant to Article 6.4(b). The Firm Quoted Prices for all Projects priced in this manner shall be set in anticipation of Bellcore's full recovery of its total fully loaded costs associated with such Projects as calculated according to the costing methodologies and procedures set forth in Appendix B to this Service Agreement. The Firm Quoted Price specific to each Owner-Client for each Multi-Client Project will be based on the projected cost of the Project, the number of Owner-Clients forecasted to participate in such Project, size-related or billing allocation factors approved for use by the Board as defined in Article 7.3, and any other pertinent data.
  - (1) The total effect, if any, on Bellcore's net income in connection with the results of Firm Quoted Prices shall be shared equally by all Bellcore Shareholders.
- (b) The Board may direct that some or all of Bellcore's work shall not be covered by Firm Quoted Prices. In that event, the pricing for any Project subject to such directive shall compensate Bellcore for its total fully loaded costs, calculated according to the cost methodology set forth in Appendix B to this Service Agreement. In addition, for a Client-Specific Project which may be priced on the basis of fully loaded costs rather than Firm Quoted Price, Bellcore shall provide estimated costs to the Owner-Client. In the event that, during the course of the work Bellcore is performing for one Owner-Client

where the Client-Specific Project is based on fully loaded costs, Bellcore estimates that its total billing for the work may exceed the Authorization Ceiling set forth with Work Authorization, Bellcore will seek additional written authorization from the Owner-Client to continue the Project. Bellcore's total fully loaded costs for this Project will not exceed the Authorization Ceiling set forth in the Work Authorization, without the Owner-Client's specific written authorization. If the Owner-Client does not provide such additional written authorization, the Owner-Client will be obligated only to pay for all work that was performed by Bellcore up to the date at which the Authorization Ceiling is reached, and Bellcore will be discharged of its responsibilities under such Work Authorization by delivering to the Owner-Client, in the form then existing, any Deliverable(s) that are in progress provided for in the Project Profile(s).

#### 6.5 Project Duration and Deliverable Changes

- (a) An Owner-Client is obligated to continue funding all Elective Projects to which it is committed for the duration specified in the applicable Project Profiles. Bellcore shall specifically identify, in the Project Profiles, Projects of a multi-year duration in advance of an Owner-Client's funding commitment. The parties agree that the pricing of a multi-year Project will be established on a year to year basis.
- (b) After a Multi-Client Project based on fully loaded costs has been established, the

  Deliverables for that Project may be changed with the consent of a majority of the

  Project Participants.
  - that term is defined in Article 6.5(b)(1)(i)), any Project Participant which does not concur in such a change may withdraw from the Project without any further liability for payment for work undertaken on the Project after the Participant's withdrawal. Notice of withdrawal shall be provided to all Project Participants and

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Edicore. Such withdrawal shall not relieve the Owner-Client of any obligation to monies owing to Bellcore prior to the effective date of its withdrawal or of any indemnification obligations arising from that portion of the Project which it has funded. Notwithstanding its withdrawal from such Project, the withdrawing Owner-Client's intellectual property rights and obligations (as specified in the Intellectual Property Agreement) shall continue to apply to the Deliverables designated as proprietary and which it has received because of its participation in the Project.

- (i) For the purposes of this provision, a "significant change" is defined as any change that (a) affects the timing or completion of any intermediate target date or Deliverable in a manner which has a materially adverse impact on any Participant; or (b) increases the cost or investment commitment or obligation of any Participant by an annual amount in excess of the lower of \$100,000 or 10% of total Project cost; or (c) changes the substantive content of a Project Deliverable in a materially adverse manner to a dissenting Participant. Any disputes concerning what changes are significant in accordance with this definition shall be resolved pursuant to the dispute resolution provisions of Article 8.19 of this Service Agreement.
- (c) If a Project is based on Firm Quoted Price, the Deliverables for that Project may be changed only with unanimous consent of the Participants and with Bellcore's concurrence, and such change may be made only if the Firm Quoted Price does not change. Otherwise, the Firm Quoted Price Project must be terminated pursuant to Article 6.9(c) and a new Firm Quoted Price Project established.

6.6 Role of Advisory Forums

Advisory Forums chaired by Bellcore managers responsible for specific subject areas may be established to facilitate the cansfer of information between Bellcore and the Owner-Clients on matters of common interest and needs affecting Elective Projects and to provide an opportunity for input from the Owner-Clients as to the formulation, scope and direction of such Projects. In addition, specific groups may also be established on an as needed basis.

- 6.7 Rights to Coasultation Services and Intellectual Property after Discontinuance of Funding
  - (a) If an Owner-Client decides to cease funding a Project which continues beyond the duration originally committed for by the Owner-Client or withdraws from a Project pursuant to Article 6.1(c) without receiving a refund or pursuant to Article 6.5(b) of this Service Agreement, Bellcore shall be obligated to furnish to such Owner-Client, at its request, consultation services pertaining to the affected Project, for a period not to exceed one year (unless the parties agree to a further extension). Such consultation services shall be performed pursuant to a Work Authorization for a Client-Specific Project.
  - (b) The Owner-Client's rights with respect to intellectual property, as between Bellcore and the Owner-Client, after discontinuance of funding an Elective Project shall be as set forth in the Intellectual Property Agreement.

## 6.8 Buy-in Provisions

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(a) Any Owner-Client who does not agree to participate in an Elective Project prior to the commencement of such Project may subsequently do so, pursuant to Section 3.7 of the Shareholders' Agreement. Such buy-in may occur at the Project level only, and the terms and conditions contained in the Shareholders' Agreement and herein are applicable, irrespective of whether the buy-in occurs while the Project is in progress, or after it has been completed. These buy-in procedures will also be utilized where a

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Project Dependency is identified and funding of one or more additional Projects initiated in the current year or a printiple is thereby required.

- (1) An Owner-Client requesting Bellcore to undertake a Client-Specific Project on its behalf may include in the Work Authorization a provision stipulating that no buyin to the Project by any other Owner-Client shall be permitted during a period not to exceed the earlier of (a) eighteen (18) months from the date of delivery of the principal Deliverable of the Project or, in the event there is no such Deliverable, the termination of the work effort being supported by the Owner-Client or, (b) ..... twenty-four (24) months from the date upon which the Client-Specific Project Work Authorization is acknowledged by Bellcore as provided in this Service Agreement (such period to be known as the "Access Period"). Bellcore shall honor such request subject to any rights which the other Owner-Clients may exercise pursuant to Section 3.7 of the Shareholders' Agreement. This provision shall not affect Belleore's obligations to provide information on all Projects which it undertakes to all Owner-Clients pursuant to Article 4 of this Service Agreement and shall not affect any other rights of the parties pursuant to this Service Agreement or the Intellectual Property Agreement. The Owner-Client stipulating any such Access Period may permit buy-in at its discretion at any time during the Access Period and, if it does so, may require an appropriate non-disclosure agreement from any Owner-Client who chooses to buy-in to the affected Client-Specific Project during that period. After the Access Period expires, all other Owner-Clients shall be entitled to buy-in to the affected Client-Specific Project if they so choose, by astification to Bellcore and on the terms set forth in this Service Agreement.
- (2) The methodology Blustrated in Appendix C to this Service Agreement shall be utilized to calculate the buy-in amount. However, an Owner-Client seeking to

buy-in to a Project may request an exception to such standard buy-in methodology to permit the adjustment of the base will in the calculation of the buy-in amount (fully toaded costs or Firm Quoted Price, as the case may be) in order to take account of the obsolescence or any other circumstances relevant to the Project Deliverable(s) to which such base pertains. Such request shall be submitted in writing to Bellcore and to the Board members or their designees at the time that such buy-in is sought. Bellcore shall provide to the Board members or their designees are recommendation as to whether an adjustment is warranted in the circumstances and, if so, the appropriate amount. The Board or Board members' designees may permit an adjustment on a case-by-case basis by unanimous vote.

- (3) For Client-Specific Projects subject to an Access Period provision, the fixed 10% fee (as provided for in Section 3.7 of the Shareholders' Agreement and referred to herein as the "risk fee") shall be applicable immediately as and when buy-in occurs. For all other Projects, the risk fee shall not be applicable in the following circumstances:
  - (i) if a new Project commences with the new calendar year and an Owner-Client decides and notifies Bellcore by the last work day in January to fund a new Project which it had not previously committed to during the annual budget cycle; or
  - (ii) if a new Project commences during the calendar year subsequent to the completion of the budget cycle and an Owner-Client provides Bellcore with notice of its decision to buy-in to such Project no later than ninety (90) days after it has received notice from Bellcore that such Project has been authorized.
- (b) When an Owner-Client requests Bellcore to undertake a Client-Specific Project on its

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behalf and a Project Dependency is identified between that Project and a Multi-Client Project, then the Owner-Client shall also buy-in to the Multi-Client Project if it is not already a Participant, subject to the provisions of Article 6.1.

- (c) The revenues realized from a buy-in by the additional Owner-Glient shall be handled as follows:
  - (1) For a buy-in to a Multi-Client Project based on a Firm Quoted Price, where such buy-in occurs prior to or during the first full calendar year of the Project, the risk fee and interest shall be credited to the Participants in the Project in proportion to their respective participation and the balance of the revenues shall be dealt with in accordance with Article 6.4(a) (1).
  - (2) For a buy-in to a Multi-Client Project based on a Firm Quoted Price where such buy-in occurs after the first full calendar year of the Project, the distribution of revenues shall occur as follows:
    - Revenues associated with Firm Quoted Price(s) applicable prior to the calendar year in which the buy-in occurs shall be credited to the Participants in the Project, in proportion to their respective participation;
    - (ii) Revenues associated with the Firm Quoted Price applicable to the calendar year in which the buy-in occurs shall be dealt with in accordance with Article 6.4(a) (1):
    - (iii) In all cases, risk fee and interest shall be credited to the Participants in the Project, in proportion to their respective participation.
  - (3) For a Client-Specific Project based on Firm Quoted Price, when buy-in occurs, the Client-Specific Project is terminated and a new Firm Quoted Priced Multi-Client Project is assablished. The original Owner-Client receives a credit reflecting the buy-in adjustment calculated as the difference between the monies billed to date

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and the pro rata portion of its new price for the Firm Quoted Priced Multi-Client Project, including credit for the risk fee and interest paid by the Owner-Client(s) buying in. For each and every subsequent buy-in which occurs prior to or during the first full calendar year of the newly established Multi-Client Project, a new Firm Quoted Price shall be established immediately prior to the buy-in for each previously existing and new Participant and the associated revenues, risk fee, and interest shall be credited to the previously existing Participants in the Projects, in proportion to their respective participation. The new Firm Quoted Price shall be based on the Project's original budgeted costs except when the addition of Participants increases costs.

- (4) For any Elective Projects for which the price is based on fully loaded costs, revenues including risk fee and interest, shall be credited to the Participants in the Project, in proportion to each such Participant's Project fully loaded cost.
- (d) Any Owner-Client who chooses to buy-in to a Project shall provide notice to Bellcore of such intent, and set forth the desired date of the buy-in. Bellcore shall thereafter notify all other Owner-Clients of the buy-in. In such notice to the Owner-Clients, Bellcore shall identify the affected Project and the Owner-Client intending to buy-in, and set forth the effective date of the buy-in.

#### 6.9 Flexibility, Overruns and Terminations

In order to recognize changes in the Owner-Clients' priorities during the calendar year and to provide for work program and budget flexibility, the following procedures may be invoked (in addition to the establishment of new Elective Projects as provided for in Article 6.3):

Revised per Board Resolution October 4, 1989

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(a) Flexibility

With the agreement of Bellcore and the Authorized Representatives of all Owner-Clients funding an Elective Project, excluding Firm Quoted Price Projects, any or all of the authorized budget of such Project may be moved to another new or existing Project without specific Board approval so long as the parameters set forth in Appendix A to this Service Agreement are not exceeded.

(b) Overruns

For an Elective Project, excluding Firm Quoted Price Projects, Bellcore may exceed the authorized budget of such Project without specific Board approval so long as the parameters set forth in Appendix A to this Service Agreement are not exceeded and provided (1) that the specific Deliverables are achieved, (2) that no other Project Deliverables are negatively impacted, and (3) that the Owner-Clients receive timely written notification and explanation.

#### (c) Terminations

Any Elective Project may be terminated with written agreement of all participating Owner-Clients funding such Project and payment to Bellcore of all costs directly associated with such termination which cannot be reasonably avoided by Bellcore. Such costs shall include, but not be limited to, outstanding obligations to vendors, licensors, licensees and other third parties. Upon request, Bellcore shall furnish an itemized estimate of costs for such termination in accordance with Bellcore's standard costing methodology. For Projects covered by Firm Quoted Price the difference between Bellcore's fully loaded cost associated with the work performed up to the termination date and the amount billed on account of the Firm Quoted Price by the termination date shall be dealt with in accordance with Article 6.4(a)(1). The

applied to other Elective Projects, new or existing in accordance with the parameters

# 6.10 Client-Specific Projects Supported By Vendor Contribution

In order to recognize and account for non-affiliate vendor contributions to any Client-Specific Project that is authorized by an Owner-Client on or after April 1, 1989, unless grandfathered in accordance with Boold approval, and which Project equals or exceeds the threshold specified in Article 6.10 (a), the following procedures shall govern, where applicable, the buy-in calculation and revenue distribution methodologies described in Articles 6.8 and 7.4 respectively:

- (a) For each Client-Specific Project whose annual total fully loaded cost or Firm Quoted Price, as the case may be, equals or exceeds \$100,000, the authorizing Owner-Client receiving funding or equivalent forms of contribution from one or more non-affiliate vendors toward the cost of such Project shall report to Bellcore the existence of such contribution and the quantification thereof as described below. The authorizing Owner-Client shall be solely responsible for determining whether and to what extent there is a net vendor contribution to be reported, after evaluating all relevant factors including Owner-Client risk, obligations and contingencies ("Net Vendor Contribution"). The authorizing Owner-Client's determination of what Net Vendor Contribution, if any, is reported to Bellcore shall not be subject to audit or evaluation by Bellcore or any other Owner-Client.
- (b) For administrative sonvenience, the authorizing Owner-Client shall quantify the proportion of Net Vendor Contribution to total annual Project cost in percentage terms and then round such contribution to the nearest ten (10) percent. Such quantification shall then be reported to Bellcore.
- (c) Based on the data submitted by the authorizing Owner-Client, Bellcore shall reduce the base used in the calculation of the buy-in amount charged to each Owner-Client subsequently seeking to buy in to the Project (fully loaded costs or Firm Quoted Price, as the case may be)

Revised per Board Resolution December 6, 1989

by the percent of Net Vendor Contribution reported by the Owner-Client. Appendix C, as amended, to this Service Agreement illustrates the methodology utilized to calculate the buy-in amount, including the impact on risk fee and interest. Further, in recognition of the authorizing Owner-Client's efforts in connection with obtaining and managing the Net Vendor Contribution, the Owner-Client(s) that first buys into the Project shall pay a fee (hereinafter, "Management Fee") that is equal to ten (10) percent of the Net Vendor Contribution as calculated from the data subrelited by the authorizing Owner-Client. The Management Fee shall be due and credited at the authorizing Owner-Client upon the first buy-in. Each time a buy-in occurs subsequent to the initial buy-in(s) and payment of the Management Fee, the Owner-Client(s) then buying into the Project shall pay a pro rata share of the Management Fee, in addition to all other applicable charges, which amounts shall be credited to all existing Participants in the Project which previously contributed to the payment of the Management Fee.

- (d) Based on the data submitted by the authorizing Owner-Client, Bellcore shall adjust the distribution of revenues realized from the provision of services or Deliverables of a Project to any entity other than Owner-Clients or their Affiliates to reflect the proportion of Net Vendor Contribution reported by the authorizing Owner-Client. Appendix E, as amended, to this Service Agreement illustrates the methodology utilized to accomplish this distribution adjustment.
- (e) All other provisions of the Service Agreement, as amended from time to time, affecting ClientSpecific Projects, including without limitation the rules affecting buy-in and handling of
  revenues, shall remain in force as set forth therein and are not affected by this Article 6.10
  except to the extent expressly stated.

Revised per Board Resolution December 6, 1989

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Article 7. - Billing and Payment

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### 7.1 General Terms

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Each Owner-Client shall compensate Belleore for its undertaking of Projects on the Owner-Client's behalf according to the following terms:

- (a) The Owner-Clients will be billed for either (1) the Firm Quoted Price of each of their Projects covered by a Firm Quoted Price or (2) their allocated share of the fully loaded costs of each Project based on fully loaded costs. For a Project covered by a Firm Quoted Price, each Participant shall be charged the Firm Quoted Price applicable to that Participant and Project and shall be billed monthly for the charges due against this price pursuant to the billing provisions of Article 7.5 of this Service Agreement.
- (b) The billings for all Projects not covered by a Firm Quoted Price will reflect credits for revenues attributable to Bellcore's provision of services or Deliverables to any entity other than the Owner-Clients or their Affiliates, as described in Article 7.4 hereof.
- (c) The Owner-Clients agree to pay Bellcore the charges indicated on each bill within thirty (30) days after receipt of each bill as hereinafter provided for in this Article. In the event of any dispute arising under this Service Agreement including, but not limited to, the amount of any bill rendered by Bellcore to an Owner-Client for Projects furnished to the Owner-Client, or Bellcore compliance with the warranty provided for in Article 8.1, either the Owner-Client or Bellcore may pursue dispute resolution according to the procedures described in Article 8.19 hereof. Pending resolution of such dispute, the Owner-Client shall nevertheless pay the full amount of the bill, in accordance with the provisions of this Article 7.1(c), except as follows:

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- of such Owner-Client, or gerson designated by such member as an Authorized Representative for this purpose, shall notify Bellcore in writing of such dispute by the date that payment of such billing(s) is due under Article 7. The notification shall specify the basis of this dispute;
- (2) Upon giving such notification, such Owner-Client shall have the right to withhold payment of up to \$500,000 of such disputed billing(s) relating specifically to such Project(s) in dispute pending resolution of such dispute:
- (3) The Owner-Client agrees to pay Bellcore that portion of the disputed amount of billing that is in excess of \$500,000 and all other amounts shown on the bill not affected by the dispute in accordance with the provisions of this Article 7.1(c);
- (4) If the Owner-Client does not provide the aforementioned notice then the Owner-Client shall forfeit such right to withhold any payment of the amount in dispute pending resolution of such dispute(s). Should a dispute be resolved in favor of Bellcore where the Owner-Client has provided proper notice and withheld payment pursuant to these provisions, the Owner-Client shall pay to Bellcore the amount in dispute which it withheld, plus an interest charge calculated from the original due date to the actual payment date. Should the dispute be resolved in favor of the Owner-Client and the Owner-Client had made some payment to Bellcore of the disputed amount, Bellcore shall refund or credit, at the Owner-Client's option, such amounts in dispute, plus an interest charge calculated from date of initial payment to refund or credit date. The aforementioned interest charges will be calculated at an annual rate of one percent (1%) over the lowest prime rate in effect in New York City as

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published in The Wall Street Journal on the Monday (or, if Monday is a holiday; the next legal business day) following the payment due date.

## 7.2 Costs

The fully loaded costs that Bellcore incurs in performance of the Projects which it undertakes for the Owner-Clients will be charged or distributed to the Projects in a manner consistent with generally accepted accounting principles. The costs will consist of those described in Appendix B to this Service Agreement.

From time to time as circumstances warrant, it may be necessary to make changes to the description of costs to be billed contained in Appendix B to this Service Agreement. All such changes will be in accordance with generally accepted accounting principles, and timely notice will be provided to all Authorized Representatives of the Owner-Clients pursuant to the notice provisions of this Service Agreement. Board approval will be required for changes which Bellcore's Senior Vice President-Finance and Administration determines to be major in nature.

The costs incurred in the performance of any Project, to the extent attributable to research or experimental activities, shall constitute contract research expenses within the meaning of the Federal Income Tax Law and of the revenue statutes of any state or political subdivision.

## 7.3 Billing Allocation Provisions

When a Firm Quoted Price is used for pricing of a Multi-Client Project, and the price is determined as specified in Article 6.4, the size-related billing allocation factors as approved by the Board shall be used in establishing the price. When a Firm Quoted Price is not used for pricing of a Multi-Client Project, the billing of that Project shall be based on the allocation of actual fully loaded costs utilizing the same size-related factors approved by the Board, as specified herein.

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An allocation factor will be developed for each Owner-Client based on its relative Total Operating Expenses (TOE) and Total Plant in Service (TPIS) investment for each year over a four year period. Each Owner-Client's TOE and TPIS will be separately calculated and averaged for each of the four individual years 1984 through 1987. For each Owner-Client, these four (4) separate averages will then form the basis for a single four-year average percentage which will be used as an allocation factor.

Appendix D to this Service Agreement illustrates the derivation of these factors based on a four-year average for 1984 through 1987 TOE and TPIS-values. These factors will be used for the 1988, 1989, and 1990 annual budget cycles and billing to the Owner-Clients. Prior to January 1, 1990 the Board will review billing allocation to determine if a new factor(s) should be introduced. If there is not unanimous agreement by the Board to introduce a new factor(s), then these original factors based on a four-year average will continue to be utilized until such time as the Board decides otherwise by unanimous vote. With a unanimous vote of the Board, the factors may be updated to include a more current four-year period. Without such unanimous vote of the Board, the original factors based on the 1984-1987 period will be used for the life of this Service Agreement or until 1993, whichever is earlier.

It is the intent of the parties that the billing allocation data submitted be as consistent as feasible among the Owner-Clients in terms of what sources and categories of data are included or excluded. The Owner-Clients agree that they shall submit such data to Bellcore with a statement of attestation by the Owner-Clients' external auditors.

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## 7.4 Cost-Sharing Revenue

The revenues realized from the provision of services or Deliverables of a Project to any entity other than Owner-Clients or their Affiliates shall be treated as payment for sharing in the benefits/costs of the Project, thereby reducing the cost to the respective Owner-Clients. Bellcore shall credit such cost-sharing revenue directly to Owner-Clients in the manner described in Appendix E to this Service Agreement for Projects based on fully loaded costs and for Client-Specific Projects based on

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Firm Quoted Price. Any cost-sharing revenues received for Multi-Client Projects based on Firm Quoted Price shall be dealt with in accordance with Article 6.4(a)(1).

# 7.5 Monthly Service Billing

- (a) On or about the twelfth work day of each month, Bellcore shall submit a bill to each Owner-Cliente for services provided by Bellcore during the previous month, which billing shall be based on costs incurred during the previous month or on Firm Quoted Prices, whichever is applicable. Each bill will provide referencing Project numbers. For Projects based on actual fully loaded costs, the billing will detail the total Bellcore costs for each Project, the Owner-Client's allocation of the total Project cost (where applicable), credits from any revenues received from any entity other than Owner-Clients or their Affiliates and any applicable billing adjustments. For Firm Quoted Price Projects, the billing will show total price billed for that Project and the Owner-Client's price. In addition, for Client-Specific Projects based on Firm Quoted Price, the billing will reflect credits from any revenues received from any entity other than Owner-Clients or their Affiliates, whenever applicable.
- (b) It may be necessary in certain instances for Bellcore to bill previous month services on an estimated basis. If billing is on an estimated basis, subsequent adjustment bills, including backup details, will be rendered based on actual costs and Billing Allocation Factors, and will also be payable according to the aforementioned provisions.
- (c) Special Billing Arrangements shall be provided as requested pursuant to Article
  4.1(b).
- (d) On or about the twelfth work day of February, a final adjustment of billing residuals from the previous year will be made, except for Firm Quoted Price Projects where a ! final adjustment will be made to the 1st quarter dividend in the following year.

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### 7.6 Interest on Payments Overdue

Payments so Belleve provided for in this Service Agreement shall, when overdue, be subject to an interest charge for the period such payment is overdue, calculated at an annual rate of one percent (1%) over the howest prime rate in effect in New York City as published in The Wall Street Journal on the Monday for, if Monday is a holiday, the next legal business day) following the payment due date. If the amount of such interest charge exceeds the maximum permitted by law for such charge, the interest charge shall be reduced to such maximum amount.

### 7.7 Form of Payment

Payment to Bellcore shall be made via wire transfer (Fed wire) to those accounts designated by Bellcore's Senior Vice President-Finance and Administration.

#### Article 8. - Miscellaneous Provisions

#### 8.1 Warranty

Bellcore warrants that it will provide all services, information and Deliverables furnished in connection with each Project hereunder in reasonable conformance with the Project description contained in the pertinent Project Profile as supplemented by any Work Authorization. If any Project description is changed by agreement of Bellcore and the funding Owner-Client(s), Bellcore warrants that it will perform in reasonable conformance with the description as so changed. Bellcore also agrees that once Bellcore's performance of a Project has been accepted by an Owner-Client pursuant to Article 8.17 hereof, Bellcore shall continue to satisfy the Owner-Client's ongoing service requirements with respect to such Project as description shall specify the practicable criteria (which may include "time is of the Project's written description shall specify the practicable criteria (which may include "time is of the essence" criteria) and pencedures for verifying Bellcore's performance in reasonable conformance with such Project's written description, together with any specific requirements applicable to the continued

manner consistent with generally accepted professional standards. BELLCORE HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF PERFORMANCE OR QUALITY WITH RESPECT TO ANY PROJECT AND INFORMATION FURNISHED THEREUNDER, INCLUDING. WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

## 8.2 Liability

- (a) NO PARTY HERETO SHALL BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER WITH RESPECT TO ANY PROJECT PROVIDED TO ANY OWNER-CLIENT UNDER THIS SERVICE AGREEMENT. This provision is applicable to claims between the parties to this Service Agreement for alleged breach thereof.
- (b) In the event of nonperformance by Bellcore of any obligation under this Service Agreement, each Owner-Client's sole recourse shall be as set forth in Article 8.3(b) hereof.

## 8.3 Default

### (a) Owner-Client Default

(1) Notwithstanding any grant of rights under the Intellectual Property
Agreement, if any Owner-Client is in default in the payment of any amount
due Belleore under this Service Agreement for more than thirty (30) days after
written notice from Bellcore that said payment is in default, such Owner-Client
shall forefeit all rights to any license under Software, Technical Information or
Copyrights fas those terms are defined in the Intellectual Property Agreement)
resulting from the Project as to which payment is in default until such time as

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- the defaulting Owner-Client satisfies all outstanding payment obligations to

  Bellcore relating to such Project.
- If any Owner-Client materially breaches its obligations with respect to the use and disclosure of proprietary information which Bellcore has transferred to such Owner-Client, the Board may declare such Owner-Client to be in default hereunder and may determine an appropriate remedy for such default. Such remedy shall be limited to the Project in question and shall be reasonable in light of the extent of the breach. Further, such remedy is subject to the disclaimer of liability set forth in Article 8.2. The Board or the affected Owner-Client may submit to binding arbitration (as provided in Article 8.19 hereof) any dispute which has not been resolved to the satisfaction of the Board or the affected Owner-Client for a determination whether the Owner-Client is in default hereunder and/or the appropriate remedy for such default.
- (3) If the remedy decided upon under Article 8.3(a)(2) includes the termination of Bellcore's obligations to the defaulting Owner-Client with respect to any Project(s), such termination shall not relieve the Owner-Client from its obligation to pay any sums of money then due or payable under this Service Agreement at the date of such termination, together with any payments that it would otherwise have been obligated to pay with respect to the affected Project for the balance of the term of the Owner-Client's commitment for said Project, discounted to the date of payment. The parties' obligations with respect to all other Projects in which they are participating remain unchanged. Bellcore's termination of its obligations with respect to the defaulting Owner-Client shall not relieve it of its obligations to the other participating Owner-Clients.
- (4) The foregoing remedies are in addition to any other applicable remedies for default set forth in the Shareholders' Agreement.

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the satisfaction of the Board or the affected Owner-Client(s) for a determination whether Bellcore is in default hereunder and/or the appropriate remedy for such default except that where Bellcore's failure to perform is due to an action of the Board which directly prevents Bellcore from fulfilling the Project Deliverables, Bellcore shall not be liable for any damages or expenses hereunder. Further, the arbitrator's award shall be limited by the provisions contained in Article 8.3(b)(1).

(3) Any Owner-Client which terminates its obligations under Article 8.3(b)(1) by reason of Bellcore's default shall continue to have the rights to all Bellcore intellectual property with respect to such Project in accordance with those terms of the Intellectual Property Agreement applicable to an Owner-Client which withdraws from a Project.

#### 8.4 Owner-Client's Information

The parties agree that Bellcore's performance as described in a Project Profile and/or Work Authorization may be conditional upon the Owner-Client's timely, accurate and complete provision of relevant Owner-Client information and that the Owner-Client's failure to provide such information may constitute a justification for Bellcore's nonperformance under this Service Agreement. Bellcore shall protect the confidentiality of all Owner-Client information which it receives from an Owner-Client in accordance with the Intellectual Property Agreement.

## 8.5 Legal Compliance

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This Service Agreement is subject to termination or modification as shall be required (a) by the Court under the MFJ or (b) otherwise by law or judicial ruling.

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the satisfaction of the Board or the affected Owner-Client(s) for a determination whether Bellcore is in default hersunder and/or the appropriate remedy for such default except that where Bellcore's failure to perform is due to an action of the Board which directly prevents Bellcore from fulfilling the Project Deliverables, Bellcore shall not be liable for any damages or expenses hereunder. Further, the arbitrator's award shall be limited by the provisions contained in Article 8.3(b)(1).

(3) Any Owner-Client which terminates its obligations under Article 8.3(b)(1) by reason of Bellcore's default shall continue to have the rights to all Bellcore intellectual property with respect to such Project in accordance with those terms of the Intellectual Property Agreement applicable to an Owner-Client which withdraws from a Project.

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#### 8.5 Legal Compliance

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This Service Agreement is subject to termination or modification as shall be required (a) by
the Court under the MFJ or (b) otherwise by law or judicial ruling.

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### 8.5 Independent Responsibilities

Each party will be solely responsible for all matters relating to the payment of its respective employees, including sompliance with social security taxes, withholding taxes, workers' compensation and all other regulations governing such matters. Further, each party will be responsible for its own acts and those of its own subordinates, employees, agents and subcontractors during the performance of that party's obligations hereunder.

# 8.7 Security and Access

- (a) Employees and agents of each party shall, while on the premises of another party.

  comply with all applicable rules and regulations, including security requirements,
  and, where required by Government Regulations, shall obtain satisfactory clearance
  from the U.S. Department of Defense or other relevant federal authority.
- (b) Each party shall provide each of its employees who perform work on or have access
  to another party's premises or facilities with an identification card, which shall be
  displayed to she other party's representatives upon request.
- (c) Each party is responsible for all keys or access cards to another party's premises issued in connection with activities performed under this Service Agreement. Such keys or access cards shall not be duplicated.
- (d) All such keys or access cards shall be returned to the owners thereof upon request, or, in any event, when no longer required to perform activities under this Service Agreement. Loss of keys or access cards shall be promptly reported to the owner thereof.

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#### 8.8 Force Majeure

- (a) No party shall be held liable to any other party for any delay or failure in performance under this Service Agreement caused by fire, labor strike, embargo, explosion, power blackout, earthquake, volcanic action, flood, war, water, the elements, labor dispute, civil disturbance, government requirement, civil or military authority, act of God or public enemy, or inability of the performing party to secure the product of any manufacturer or outside vendor through no fault of its own, or any such delay or failure resulting from any other cause beyond the performing party's control, whether or not similar to any of the foregoing conditions (any and all of which are hereinafter referred to as a "Force Majeure Condition").
- (b) If any Force Majeure Condition occurs, the affected party shall give immediate notice thereof to every other party that may be affected.

# 8.9 Compliance With Employment Laws

- (a) All obligations under this Service Agreement shall be performed in compliance with all applicable legislation and government agency orders and regulations prohibiting discrimination against any employee or applicant for employment because of race, color, religion, sex, national origin, age or handicap. Where required by law, certificates of compliance shall be provided.
- (b) Each party shall comply with the provisions of the Fair Labor Standards Act of 1938, as amended, OSHA and all other applicable federal, state and local law governing employment.

#### 8.10 Amendments; Waivers

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This Service Agreement may be amended in whole or in part by written agreement among all of the parties hereto. No consent to any waiver or any default under this Service Agreement shall be

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effective unless the same shall be in writing and signed by an Authorized Representative of the party against whom such waiver or default is claimed.

The Board may change any of the Appendices to this Service Agreement by unanimous vote whereupon such changes shall be deemed effective for the purposes of this Service Agreement without any further action required by the parties.

In addition, no course of dealing or failure of any party to strictly enforce any term, right or condition of this Service Agreement shall be construed as a waiver of such term, right or condition.

#### 8.11 Notices

All notices and demands of any kind, which either Bellcore or any Owner-Client may be required to, or desires to, furnish the other under the terms of this Service Agreement, shall be in writing and shall be sent by certified mail to the addresses set forth in the Appendix F to this Service Agreement. Any such mailing shall constitute full and adequate notice, and shall be deemed delivered when postmarked. If any party desires to change its designated address, it may do so by written notification to all of the other parties.

# 8.12 Severability

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If any provision of this Service Agreement shall not be affected thereby and the remaining terms shall continue in effect and be binding on the parties. If any party is prevented from performing any of the provisions of this Service Agreement by any governmental order, judicial decree, regulation, Force Majeure Condition, or statute, it will be relieved of its obligation to perform that provision which it is prevented from performing, and the remaining terms shall continue in effect and be binding on the parties.

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## 8.13 Assignment

- (a) An Owner-Client shall not have the right to assign, transfer or sell any rights acquired under this Service Agreement, or to delegate its obligations hereunder, without the prior written consent of Bellcore, except as provided in subparagraph (b) hereof. Bellcore may not assign its rights and/or delegate its obligations to perform under this Service Agreement without the prior written consent of all Owner-Clients funding the affected Projects.
- (b) Without Belleore's consent, each Owner-Client may assign its rights under this Service Agreement to any of its Related Entities, as that term is defined in Section 1.5 of the Shareholders' Agreement. The Owner-Client shall notify Belleore in writing in a timely manner of such assignment and such assignment shall only be effective upon the assumption of the assignor's obligations hereunder by the assignee. Upon effectiveness, the assignee under any such assignment shall assume all of the rights and obligations of the assigning party.

## 8.14 Executed in Counterparts

This Service Agreement may be executed in any number of counterparts, each of which shall be an original; but such counterparts shall together constitute but one and the same instrument.

## 8.15 Headings

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The headings in this Service Agreement are for convenience only and shall not be construed to define or limit any of the terms herein or affect the meaning or interpretation of this Service.

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8.16 Governing Law

This Service Agreement is to be governed by and interpreted under the laws of the State of New Jersey.

8.17 Acceptance

Each Owner-Client shall have the obligation to accept Bellcore's performance of all infrastructure and Elective Projects which such Owner-Client has committed to fund, except any Project(s) that fails to meet the warranty specified in Article 8.1.

8.18 Audit

An Owner-Client shall have the right to conduct an independent audit of the books, records and operations of Bellcore as described in Section 9 of the Shareholders' Agreement.

### 8.19 Dispute Resolution

If a dispute arises under this Service Agreement between or among the parties hereto, it is agreed that the disputing parties shall first attempt to resolve such dispute through negotiations between or among themselves, referring the matter, at their option, to a Board-appointed body with expertise in the subject matter of the dispute. If the dispute is not resolved through direct negotiation, either of the disputing parties may take the dispute—to the Board for resolution. Within sixty (60) days of final action by the Board, any aggrieved party or the Board may submit the dispute to binding arbitration. If the dispute reaches arbitration, such arbitration shall be conducted in accordance with the Rules of the American Arbitration Association except that the parties may agree to name any and all of the arbitrators and determine the method and amounts of compensation for the arbitrator(s) selected. The arbitrator(s) shall be bound by the terms, conditions, and remedies provided for in this Service Agreement, the Shareholders' Agreement and the Intellectual Property Agreement. Any

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arbitration award rendered chall be final and binding upon the parties, and judgment upon any such award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof.

## 8.20 Third-Pasty Claims

This Service Agreement shall not provide third parties with any remedy, claim, liability, reimbursement, claim of action or other right in excess of those existing without reference to this Service Agreement.

### 8.21 Controlling Agreement

In the event that and to the extent that the provisions of the Shareholders' Agreement conflict with the terms of this Service Agreement, the provisions of the Shareholders' Agreement shall control.

# 8.22 Entire Agreement

Except for matters specifically addressed in the Shareholders' Agreement, Intellectual Property Agreement or Belleore TEC Agreement, this Service Agreement contains the entire understanding and agreement among the parties hereto with respect to Projects offered to the Owner-Clients hereunder, and supersedes any prior agreements among the parties pertaining thereto. This Service Agreement supersedes and replaces the Service Agreement among the parties effective January 1, 1984 as amended. There are no representations, warranties, promises, covenants or understandings other than those herein expressly set forth.

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IN WITNESS WHEREOF, the parties hereto have caused this Service Agreement to be signed by

AMERITECH SERVICES, INC.

1900 East Golf Road

Schaumburg, IL 60173

BY: Bruce R. DeMaeyer DATE: 12-30-87

BELL ATLANTIC NETWORK SERVICES, INC.

1310 North Courthouse Road

Arlington, VA 22201

BY: Philip A. Campbell DATE: 12-22-87

BELLSOUTH SERVICES INCORPORATED

600 North 19th Street

Birmingham, AL 35203

DATE: 12-28-87

BY:

Hugh B. Jacks

120 Bloomingdale Rd.		•				
White Plains, NY 10605			•			
BY: P. D. Covill	DATE:	12-28-87	•			
	•		•			
PACIFIC BELL	•		: :			
140 New Montgomery Street						
San Francisco, CA 94105						
BY: M. A. Kaplan	DATE:	1-5-88				
			<del></del>			
SOUTHWESTERN BELL TELEPHONE COMPANY		•				
1010 Pine Street	•					
St. Louis, MO 63101						
BY: C. E. Foster	DATE:	12-31-87				
~			•			
U S WEST ADVANCED TECHNOLOGIES, INC. as Agent for THE MOUNTAIN STATES						
TELEPHONE & TELEGRAPH COMPANY, NORTHWESTER	N BELL T	ELEPHONE	COMPANY and			
PACIFIC NORTHWEST BELL TELEPHONE COMPANY			•			
6200 South Quebec Street			·			
Englewood, CO 80111						
BY: W. J. Wade	DATE:	1/18/88 re-signed	3/18/88			

NYNEX SERVICE COMPANY

**!** \*

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BELL COMMUNICATIONS RESEARCH, INC.

290 West Mt. Pleasant Avenue

Livingston, NJ 07039

BY: R. J. Marano

DATE: 12-10-87

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OVERRUNG (exceeding Authorised Budget)	Timely Written Notification and Explanation by Believe to Owner-Clients	Board Approval Not Applicable	Not Applicable (reference Article 5.3)	Timely Written NotiBeation and Explanation by Belicore to Ownerschillente, r	Board Approvat (reference Article 6.9(b))
NEW PROJECTS (establishing new Projecta)	Not Applicable	Not Applicable Board Approval	Board Approval (reference Article 8.2(a.))	Not Applicable Written Approval of Authorited Owners' Representatives and Bellcore's CEO or Designee	Board Approval (reference Article 6.3(a) and 6.9(c))
BUDGET PLEXIBILITY (moving montes from one Project to another)	Not Applicable	Not Applicable Council Approval	Board Approval (reference Article 5.2(c) and 5.2(d))	Not Applicable Written Approval of Authorised Owners' Representatives and Agreed to by Belicore	Board Approval (reference Article 6.9(a) and
PROJECT	INFRASTRUCTURE Shareholders' Agreement and If amount is:  • Greater than \$75 with a minimum resulting value of \$2,500 or \$5,000	. Orestep then 15% of Project cost or 14M (whichever is less) . Less then or equal to \$10M	. Grater than \$10M	USAGE-SENSITIVE  If amount is:  Orester than 5% with a minimum resulting value of \$2,500 or \$5,000 segardless of percent  Less than or equal to \$10M	• Grater than \$10M

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Agreement, the following terms and conditions contained in the SERVICE AGREEMENT shall be incorporated as part of this AGREEMENT:

Section 7.5	Monthly Service Billing
Section 7.6	Interest on Payments Overdue
Section 7.7	Form of Payment
Section 8.1	Warranty
Section 8.2	Liability
Section 8.3(a)	Owner-Client
Section 8.3(b)	Bellcore Default
Section 8.6	Independent Responsibilities
Section 8.7	Security and Access
Section 8.8	Force Majeure (subject to the exception noted in Section 9.4 herinabove
Section 8.9	Compliance with Employment Laws
Section 8.17	Acceptance
Section 8.18	Audit
Section 8.19	Dispute Resolution
Section 8.20	Third Party Claims

(d) To the extent not contradicted herein, with respect to matters relating to confidentiality of the parties' information and indemnification for third party intellectual property claims including, but not limited to, COURSE RELATED MATERIALS, the rights and obligations of the parties shall be as set forth in the IPA. These matters include, but are not limited to, security of the parties' information, disclosure of information to third parties and indemnification.

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IN WITNESS WHEREOF, the parties hereto have caused the Bellcore TEC Agreement to be signed by their duly authorized representatives. AMERITECH SERVICES, INC. 1900 E. Golf Road Schaumburg, IL 60173 Bruce R. DeMacyer Date: 9-27-88 BELL ATLANTIC NETWORK SERVICES, INC. 1310 North Courthouse Road Arlington, VA 22201 Date: 11-1-88 BELLSOUTH SERVICES INCORPORATED 600 North 19th Street Birmingham, AL 35203 By: Hugh B. Jacks Date: 9-30-88 NYNEX SERVICE COMPANY 500 Westchester Avenue White Plains, NY 10604 Paul D. Covill Date: 9-30-88 PACIFIC BELL 140 New Montgomery Street San Francisco, CA 94105

Date: \_\_\_

10-14-88

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SOUTHWESTERN BELL TELEPHONE COMPANY 1010 Pine Street St. Louis, MO 63101

Ву:	C. E. Foster	Date:10-	-12-88
for TH COMP PACIF 6200 S	EST ADVANCED TECH E MOUNTAIN STATES ANY, NORTHWESTERS IC NORTHWEST BELL Quebec Street rood, CO 80111	TELEPHONE & TEL V BELL TELEPHONI	EGRAPH E COMPANY and
Ву:	W. J. Wade	Date:11	-21-88
290 W	COMMUNICATIONS R. est Mt. Pleasant Avenue ston, NJ 07039	ESEARCH, INC.	
Ву:	Donald S. Baker	Date: 9	-23-88

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Attachment A Page 1 of 2

## BELLCORE TEC

#### 1988 LICENSING ALGORITHMS\*

- I. The following algorithms are approved for the licensing of Belicore TEC courses by an Owner-Client:
  - A. To be employed when an Owner-Client plans to deliver a course or any portion of a course "as is." Instructor guide and complete set of media provided with initial set of copies.

B. To be employed when an Owner-Client requests a copy of a course or a portion of a course for the purpose of local adaptation.

\* As approved by the Research & Network Council on January 12, 1988.

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Development Cost Component shall not contain any development costs previously charged to and paid for by Owner-Clients in the funding of a pre-1986 project.

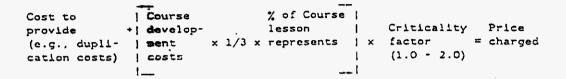
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Attachment A Page 2 of ?

## 1988 ALGORITHMS FOR SELECTED MATERIALS

- II. The following algorithms are approved for the licensing of selected portions of Bellcore TEC courses by an Owner-Client:
  - A. For selected materials (i.e., student work binder, instructor guide) allowing for recreation of a specific lesson(s), but not substantive portions of the course.



Criticality Factor accounts for lessons that require more development effort than reflected in the actual length or are critical to the overall intent of the course (i.e., final casework). If substantive portions of the entire course can be recreated from the selected materials requested, the algorithm for the entire course (I) will apply.

B. For selected materials where the lesson(s) cannot be recreated (miscellaneous slides, job aids, video tapes).

Cost to provide x Pricing factor | Price | (e.g., duplication | = charged | costs)

Pricing Factor is based on relative intentions of usage and market pricing.

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Schedule 1 Page 1 of 2

# ADDRESSES FOR NOTICES AND DEMANDS

Mr. B. Pruski Sr Dir. - Financial Assurance Ameritech Services, Inc. 1900 E. Golf Road, Floor 10 Schaumburg, IL 60173

(312) 519-2208

Mr. D. L. Myers:
Managing Director
Bell Atlantic Network Services, Inc.
1310 N. Courthouse Road, 3rd floor
Arlington, VA 22201

(703) 974-8025

Mr. E. W. Parish
Director - Regulatory Affairs
BellSouth Services, Incorporated
600 N.19th St., 17th floor
Birmingham, AL 35203

(205) 321-8648

Mr. C. P. Turner Managing Director, Financial Administration NYNEX 120 Bloomingdale Road White Plains, NY 10605

(914) 683-3342

Mr. H. Bowen
Vice President - Network Operations
Southwestern Bell Telephone Company
1010 Pine Street - Room 2508
St. Louis, MO 63101

(314) 247-1000

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Schedule I Page 2 of 2

Mr. M. E. King Division Manager, Circuit & Facilities Pacific Bell 2600 Camino Ramon, Rm. 4N904 San Ramon, CA 94583

(415) 823-7500

Ms. A. Doggett
Associate Director
Bellcore Administration
U S WEST Advanced Technologies, Inc.
6200 S. Quebec St., Suite 260
Englewood, CO 80111

(303) 740-4492

Mr. E. M. Bookrajian
Division Manager, Contract Administration
Bell Communications Research, Inc.
290 West Mount Pleasant Avenue, Room 3E110
Livingston, NJ 07039

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(201) 740-3150

Trade Name, Trademark, and Service Mark TRADE NAME, TRADEMARK AND SERVICE MARK
LICENSE AGREEMENT
BETWEEN

AMERICAN INFORMATION TECHNOLOGIES CORPORATION
BELL ATLANTIC CORPORATION
CINCINNATI BELL INC.
NYNEX CORPORATION
PACIFIC TELESIS GROUP
SOUTHERN NEW ENGLAND TELEPHONE COMPANY
SOUTHWESTERN BELL CORPORATION
U S WEST, INC.
AND
BELL COMMUNICATIONS RESEARCH, INC.

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AMERICAN INFORMATION TECHNOLOGIES CORPORATION, a Delaware corporation, having its principal place of business at 225 West Randolph Street, Chicago, Illinois; BELL ATLANTIC CORPORATION, a Delaware Corporation, having its principal place of business at 1600 Market Street, Philadelphia, Pennsylvania; BELLSOUTH CORPORATION, a Georgia corporation, having its principal place of business at 675 West Peachtree Street, N.E., Atlanta, Georgia; CINCINNATI BELL INC., an Ohio corporation, having its principal place of business at 201 East Fourth Street, Cincinnati, Ohio; NYNEX CORPORATION, a Delaware corporation, having its principal place of business at 335 Madison Avenue, New York, New York; PACIFIC TELESIS GROUP, a Nevada corporation, having its principal place of business at 140 New Montgomery Street, San Francisco, California; SOUTHERN NEW ENGLAND TELEPHONE COMPANY, a Connecticut corporation, having its principal place of business at 227 Church Street, New Haven, Connecticut; SOUTHWESTERN BELL CORPORATION, a Delaware corporation, having its principal place of business at 1010 Pine Street, St. Louis, Missouri; and U S WEST. INC., a Colorado corporation, having its principal place of business at 7800 East Orchard Road, Englewood, Colorado (hereinafter referred to collectively as "Licensors" and individually as "Licensor") and BELL COMMUNICATIONS RESEARCH, INC, a Delaware corporation, having its principal place of business at 290 West Mount Pleasant Avenue, Livingston, New Jersey (hereinafter referred to as "Licensee");

Whereas Licensors have been assigned certain trademarks, trade names and service marks (the "Assigned Marks") under the Agreement with American Telephone and Telegraph Company Concerning Trademarks, Trade Names and Service Marks, effective December 31, 1983 (the "Assignment Agreement"); and

Whereas Licensors have entered into a Supplemental Agreement Concerning Trademarks, Trade Names and Service Marks, effective December 31, 1983 (the "Supplemental Agreement") and a Trademark, Trade Name, and Service Mark Graphics Standard Agreement, effective December 31, 1983 (the "Standards Agreement") to provide for proper use of the Assigned Marks; and

Whereas by Memorandum of February 6, 1984, the U.S. District Court for the District of Columbia in U.S. v. Western Electric Company, Inc., et al., Civ. Action No. 82-0192, stated that "it is appropriate under the decree that [Licensee] be enabled to make use of the Bell name and marks"; and

Whereas Licensors desire to permit Licensee to use certain of the Assigned Marks subject to all the terms of this License Agreement;

Now, Therefore, the parties agree as follows:

- 1. Licensors hereby grant to Licensee a non-exclusive, royalty-free license throughout the United States:
- (a) To use the term BELL in Licensee's corporate name, BELL COMMUNICATIONS RESEARCH, INC., and in the trade names BELL COMMUNICATIONS RESEARCH, BELLCORE and BELL COMMUNICATIONS TECHNICAL EDUCATION CENTER (herein called the "Licensed Names") and to use the Licensed Names only as authorized pursuant to Paragraph 3 below; provided, however, that Licensee's use of the term BELLCORE in any written materials distributed outside of Licensee shall be limited to situations where the context identifies the term BELLCORE with the term BELL COMMUNICATIONS RESEARCH or BELL COMMUNICATIONS RESEARCH, INC; and

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- (b) To use the Bell Symbol in the forms depicted in Exhibit 1 hereto and the Blue and Ochre Stripes Design (The "Design Marks") in accordance with the graphics standards applicable to such Design Marks set forth in the Standards Agreement, as amended from time to time, only in conjunction with one of the Licensed Names and only as authorized pursuant to Paragraph 3 below.
- 2. The term "in conjunction with" as used in Paragraph 1(b) above does not require that a Licensed Name be used next to or in direct proximity to a Design Mark but shall mean that a Licensed Name must be used at least in equal prominence with and in sufficient proximity to a Design Mark such that a reasonable observer would normally view both in a single visual impression and would recognize that both are being used by the same entity. Licensee may not represent a Licensed Name used in conjunction with one or more of the Design Marks by the use of any initials, abbreviations or contractions thereof.
- 3. Licensee shall use the Licensed Names and the Design Marks (herein collectively called the "Licensed Marks") only in the forms expressly permitted in Paragraph 1 above and only in connection with such goods and services as may be approved from time to time by Licensors.
- 4. Licensee agrees that the goods and services rendered and materials published by Licensee and associated with the Licensed Marks will comply with all applicable laws and with standards of quality established by Licensors from time to time. Upon Licensors' request, Licensee shall promptly provide Licensors with samples of all materials bearing the Licensed Marks and with information concerning the manner in which Licensee uses the Licensed Marks. Licensee shall permit Licensors access to Licensee's premises during usual business hours to inspect all materials relating to the goods and services and to interview Licensee's personnel and Licensee shall otherwise cooperate fully in Licensors' supervision of the nature and quality of the goods and services.
- 5. The Licensors' rights under Paragraphs 3 and 4 above shall be exercised on behalf of all Licensors by the board of directors of Licensee, such board being composed of persons who serve at the direction of certain of the Licensors.

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- 6. Licensors will not use any of the Licensed Names (or the abbreviation \*BCR\*) as a trade name, trademark or service mark FR, however, a Licensor is denied permission by any State to form or qualify a corporation under any other-name on account of the prior formation or qualification of Licensee under its corporate name, Licensee, promptly upon request of such Licensor, shall execute and deliver to such Licensor all appropriate consents and shall perform all other acts (including, if necessary, changing its corporate name in such state) to permit the Licensor to form or qualify its corporation.
- 7. Licensee acknowledges the value of the Licensed Marks and the goodwill associated therewith and acknowledges that such goodwill is a property right belonging to Licensors and that Licensors are the owners of all trademark and other rights in the Licensed Marks. Licensee recognizes that nothing contained in this Agreement is intended as an assignment or grant to Licensee of any right, title or interest in or to the Licensed Marks or any other marks of Licensors or the goodwill associated therewith and that this Agreement does not confer any right on Licensee to grant sublicenses and is not assignable. Licensee will do nothing inconsistent with Licensors' ownership of the Licensed Marks, and all use of the Licensed Marks by Licensee shall inure to the benefit of and be on behalf of Licensors. Licensee will not adopt, use (other than licensed use provided for herein), register or seek to register any mark anywhere in the world which is identical to any of the Licensed Marks or to any mark used by any Licensor or which is so similar thereto as to constitute a colorable imitation thereof or to suggest some association, sponsorship and/or endorsement by any of the Licensors.
- 8. Licensee agrees to notify Licensors of any unauthorized use of the Licensed Marks by others promptly as it comes to Licensee's attention. Licensors shall have the sole right to engage in infringement or unfair competition proceedings involving the Licensed Marks, and Licensee shall cooperate fully in any such proceedings to the extent requested by one or more Licensors.
- 9. Licensors make no warranties regarding their ownership of any rights in the Licensed Marks. Licensee agrees to indemnify, defend and hold Licensors and their affiliates harmless against all claims, suits, costs, damages and judgements incurred, claimed or sustained by third parties, whether for personal injury or otherwise, because of the offering, sale or providing of the goods and services under the Licensed Marks.

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- 10. This Agreement shall be effective as of the 6th day of February 1984 and shall continue until the first to occur of (a) termination by Licensee, (b) the withdrawal of four or more of Licensors or their affiliates from ownership interest in Licensee, or (c) termination in accordance with Paragraph 11 below. For the purposes of this Paragraph 10, The Mountain States Telephone and Telegraph Company. Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone Company affiliates of U S West shall collectively be deemed to constitute one ownership interest in Bellcore.
- 11. In the event of a material breach of this Agreement by Licensee, any Licensor may notify
  Licensee in writing of the alleged breach and, if not cured within 30 days, a second written notice given by
  three or more Licensors shall terminate this Agreement.
- 12. Upon any termination of this Agreement, Licensee shall within a reasonable time of no more than 60 days discontinue all use of the Licensed Marks or any colorable imitation thereof, delete the same from its corporate name and trade names, and destroy all printed materials bearing any Licensed Marks.
- 13. To the extent this Agreement is inconsistent with the Supplemental Agreement, that Agreement is hereby amended, such amendment to remain in effect only so long as this License Agreement remains in effect.
- 14. Any notice or other communication hereunder shall be deemed to be sufficiently given to the addressee when sent by certified mail to the respective parties as follows:

AMERICAN INFORMATION TECHNOLOGIES CORPORATION 225 West Randolph Street Chicago, Illinois 60606 Attention: General Counsel

BELL ATLANTIC CORPORATION 1600 Market Street Philadelphia, Pennsylvania 19103 Attention: General Counsel

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BELLSOUTH CORPORATION
675 West Peachtree Street, N.E.
Atlanta, Georgia 30375
Attention: General Counsel

CINCINNATI BELL INC. 201 East Fourth Street Cincinnati, Ohio 45202 Attention: General Counsel

NYNEX CORPORATION
400 Westchester Avenue
White Plains, New York 10604
Attention: General Counsel

PACIFIC TELESIS GROUP 140 New Montgomery Street San Francisco, California 94105 Attention: General Counsel

SOUTHERN NEW ENGLAND TELEPHONE COMPANY 227 Church Street
New Haven, Connecticut 06506
Attention: General Counsel

SOUTHWESTERN BELL CORPORATION 1010 Pine Street St. Louis, Missouri 63101 Attention: General Counsel

U S WEST, INC. 7800 East Orchard Road Englewood, Colorado 80111 Attention: General Counsel

BELL COMMUNICATIONS RESEARCH, INC. 290 West Mt. Pleasant Avenue Livingston, New Jersey 07039 Attention: General Counsel

The foregoing addresses may be changed at any time by written notice to the other parties.

15. No provision of this Agreement shall be deemed waived, amended or modified by any party, unless such waiver, amendment or modification be in writing and signed by the party against whom it is sought to enforce the waiver, amendment or modification.

- 16. If any provision, or portion thereof, of this Agreement is found to be invalid under an applicable statute or rule of law, it is, to the extent that it is so found to be invalid, deemed omitted.
- 17. This Agreement is binding on each party and its respective affiliates, successors, assignees and licensees.
- 18. This Agreement may be executed in up to ten (10) counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

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Executed this 11th day of April, 1985.

AMERICAN INFORMATION TECHNOLOGIES CORPORATION

By [signed] Frank R. Zimmerman

Title Senior Vice President-Corporate Affairs

STATE OF <u>Illinois</u> ) SS. COUNTY OF <u>Cook</u>)

On April 11, 1985, before me, the undersigned, a Notary Public in and for said state, personally appeared Frank R. Zimmerman, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the Sr. V.P. - Corporate Affairs of AMERICAN INFORMATION TECHNOLOGIES CORPORATION and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Colette A. Hring [signed]

Executed this 8th day of January, 1985.

... BELL ATLANTIC CORPORATION

By [signed] R. A. Levetown .

Title Vice President and General Counsel

STATE OF <u>Virginia</u> ) SS. COUNTY OF <u>Arlington</u>)

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On January 8, 1985, before me, the undersigned, a Notary Public in and for said state, personally appeared R. A. Levetown, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the V.P. and General Counsel of BELL ATLANTIC CORPORATION and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Vivian V. Engle [signed]

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Executed this 6th day of January, 1986.

BELLSOUTH CORPORATION

By [signed] M. L. Campbell

Title Vice President - Corporate Affairs and Secretary

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STATE OF Georgia ) SS. COUNTY OF Fulton)

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On January 6, 1986, before me, the undersigned, a Notary Public in and for said state, personally appeared M. L. Campbell, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the Vice President of BELLSOUTH CORPORATION and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Lisa Sims [signed]

Executed this 15th day of May, 1986.

CINCINNATI BELL, INC.

By [signed] Raymond R. Clark

Title Vice President

STATE OF Ohio )
SS COUNTY OF Hamilton)

On May 15, 1986, before me, the undersigned, a Notary Public in and for said state, personally appeared Raymond R. Clark, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the Vice President of CINCINNATI BELL INC. and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Mary Louise Parker [signed]

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Executed this 5th day of February, 1985.

NYNEX CORPORATION

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By [signed] R. B. Pulling

Title Vice President - Administration

STATE OF New York

\* N: :

) SS.

COUNTY OF Westchester)

On February 5, 1985, before me, the undersigned, a Notary Public in and for said state, personally appeared R. B. Pulling, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the Vice President - Administration of NYNEX CORPORATION and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Cherie Jacobs Cavell [signed]

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Executed this 7th day of February, 1985.

PACIFIC TELESIS GROUP

By: [signed] John E. Hulse

Title: Vice Chairman and Chief Financial Officer

STATE OF <u>California</u> ) SC COUNTY OF <u>San Francisco</u>)

On February 7, 1985, before me, the undersigned, a Notary Public in and for said state, personally appeared John E. Hulse, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the Vice Chairman & Chief Financial Officer of PACIFIC TELESIS GROUP and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature P. J. Buchan [signed]

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Executed this 18th day of September, 1986.

SOUTHERN NEW ENGLAND TELEPHONE COMPANY

By [signed] Walter H. Monteith, Jr.

Title Chairman of the Board President & CEO

STATE OF Connecticut )
) SS. New Haven
COUNTY OF New Haven)

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On September 18, 1986, before me, the undersigned, a Notary Public in and for said state, personally appeared Walter H. Monteith, Jr., personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the Chrmn. of the Bd., Pres. & CEO of SOUTHERN NEW ENGLAND TELEPHONE COMPANY and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Eila F. Schmidt [signed]

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Executed this 25th day of April, 1985.

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SOUTHWESTERN BELL CORPORATION

By [signed] Joe H. Hunt

Title Executive Vice President

STATE OF <u>Missouri</u> ) SS.
COUNTY OF <u>St. Louis</u>)

On April 25, 1985, before me, the undersigned, a Notary Public in and for said state, personally appeared Joe H. Hunt, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the Executive Vice President of SOUTHWESTERN BELL CORPORATION and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Janet K. Mier [signed]

Executed this 22nd day of January, 1985.

US WEST, INC.

By [signed] A. G. Ames

Title Group Vice President

STATE OF <u>Colorado</u> ) SS COUNTY OF <u>Arapahoe</u>)

On January 22, 1985, before me, the undersigned, a Notary Public in and for said state, personally appeared A. Gary Ames, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the Group Vice President of US WEST, INC. and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Kathryn L. Barrett [signed]

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Executed this 29th day of January, 1985.

BELL COMMUNICATIONS RESEARCH, INC.

By [signed] Rocco J. Marano

Title President

STATE OF New Jersey)
SS
COUNTY OF Essex

On January 29, 1985, before me, the undersigned, a Notary Public in and for said state, personally appeared Rocco J. Marano, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed the within instrument as the <u>President</u> of BELL COMMUNICATIONS RESEARCH, INC. and acknowledged to me that such corporation executed the within instrument pursuant to its by-laws or a resolution of its board of directors.

WITNESS my hand and official seal.

Signature Deborah Rein [signed]

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Exhibit 1. The Bell Symbol

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Intellectual Property

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# INTELLECTUAL PROPERTY AGREEMENT

THIS AGREEMENT is made as of January 1, 1984, and amended as of November 2, 1988, among the following entities (sometimes referred to herein collectively as "parties" and individually as "party") which are BELL COMMUNICATIONS RESEARCH, INC. ("Belleore"), a Delaware Corporation located at 290 West Mount Pleasant Avenue, Livingston, New Jersey 07039, and Ameritech Services, Inc.; Bell Atlantic, Network Services, Inc.; BellSouth Services Incorporated; NYNEX Service Company; Pacific Bell; Southwestern Bell Telephone Company; and U S WEST Advanced Technologies, Inc., agent for the Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone Company (herein collectively referred to as "Bellcore Shareholders" and individually as a "Bellcore Shareholder");

### WITNESSETH

WHEREAS, on August 24, 1982, the District Court for the District of Columbia entered a Modification of Final Judgment ("MFJ") in *United States v. Western Electric*, Civil Action No. 82-0192; and

WHEREAS, Bell Communications Research, Inc. was established pursuant to Section I(B) of the MFJ and is owned by the Bellcore Shareholders for the provision of certain services to them; and

WHEREAS, Bellcore owns the intellectual property produced or acquired by it under the Service.

Agreement or any other agreements whereby it provides its services to others; and

WHEREAS, the Bellcore Shareholders have certain rights in and to such Bellcore intellectual property; and

WHEREAS, the parties desire to set forth the rights with respect to such intellectual property of the parties hereto;

NOW, THEREFORE, the parties hereby agree as follows:

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Article 1. - Definitions

As used herein:

- 1.1 "AFFILIATE" of any corporation or partnership means: (i) any person owning directly or indirectly a majority of outstanding voting shares (other than directors' qualifying shares) or interests of any such corporations or partnerships (such person owning such shares or interests being hereinafter called the "Parent"); (ii) any corporation or partnership of which a majority of the outstanding voting shares (other than directors' qualifying shares) or interests are owned directly or indirectly by the Parent; and (iii) any other corporation or partnership of which a majority of the outstanding voting shares (other than directors' qualifying shares) or interests are owned directly or indirectly by such corporation or partnership. Ownership of voting shares or interests by a person for the purpose of this definition includes shares or interests owned directly or indirectly by the person and shares or interests owned directly or indirectly by one or more affiliates of such person.
- 1.2 "BELLCORE INTELLECTUAL PROPERTY" refers to Bellcore Software, Copyrights, Mask Works, Patents, and Technical Information, as defined in this Agreement, and trade secrets.
- 1.3 "BELLCORE SOFTWARE" means Software, including modifications to the Pre-Divestiture Software other than the Designated Systems, which Bellcore acquires, develops or modifies under the Service Agreement.
- 1.4 "BELLCORE TEC AGREEMENT" means the Bellcore TEC Agreement among the parties thereto effective as of January 1, 1986, as amended from time to time.
- 1.5 "COMPUTER BUREAU SERVICE" means the provision of computer service by a Belicore Shareholder to a non-affiliated company using Belicore Software on the Belicore Shareholder's facilities to process the non-affiliated company's input data.

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- 1.6 \*COPYRIGHTS\*\* incans any and all copyrights existing in any country and owned or controlled by Bellcore or as to which Bellcore has the right to grant licenses, except as may otherwise be provided pursuant to Articles 6.1 and 9.21.
  - 1.7 "DESIGNATED SYSTEMS" means the small business systems set forth on Appendix A.
- 1.8 "FUNDING PARTICIPANT" means a Belicore Shareholder that funds any acquisition, development or modification by Belicore of any Belicore Intellectual Property under the Shareholders' Agreement or the Service Agreement.
- 1.9 "MAJOR SOFTWARE SYSTEM" means Bellcore Software having an embedded cost in excess of five million (5,000,000) dollars and identified in Appendix C, as changed by Bellcore from time to time.
  - 1.10 "MASK WORK" means the term as defined in 17 United States Code, Sec. 901.
- 1.11 "NORTH AMERICA" means United States, Canada and the islands, as of the effective date of this Agreement, included in the 809 area code.
- 1.12 "PATENTS" means any and all Patents issued in any country and owned or controlled by Bellcore or as to which Bellcore has the right to grant licenses, except as may otherwise be provided pursuant to Articles 6.1 and 9.21.
- 1.13 "PRE-DIVESTITURE SOFTWARE" means any Software, including Software for the Designated Systems, granted to Belicore, the Belicore Shareholders or their Affiliates by the American Telephone and Telegraph Company or its Affiliates in connection with the divestiture contemplated by the MFJ.
- 1.14 PROJECTS\* means External Projects (i.e., Infrastructure Projects and Elective Projects)
  and Internal Projects as described in Appendix B of the Service Agreement.

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- 1.15 "RIGHT-TO-LICENSE FEE" or "RTL Est means the payment by a Bellcore Shareholder or Affiliate to Bellcore for the right to sublicense Major Software Systems under the provisions of Article 8 of this Agreement.
- 1.16 "SERVICE AGREEMENT" means the Service Agreement among the parties hereto, effective as of January 1, 1988 as amended from time to time of, if specifically indicated, its predecessor agreement, effective as of January 1, 1984, as amended.
- 1.17 "SHAREHOLDERS' AGREEMENT" means the Shareholders' Agreement among the parties hereto dated as of October 2, 1984, amended as of January 1, 1988, and as further amended from time to time.
- 1.18 "SOFTWARE" means all source code, object code, and documentation associated with the system in question.
- 1.19 "TECHNICAL INFORMATION" means any and all information other than Software (including, by way of example, business plans, training materials, engineering specifications, innovations, technical know-how, testing procedures, and market studies in whatever form or manner of documentation) which Bellcore acquired or developed under the Service Agreement.
- 1.20 Terms employed herein and not otherwise defined shall have meanings consistent with the Shareholders' and Service Agreements.

## Article 2. - Software Intellectual Property

2.1 Bellcore agrees to deliver promptly to any Bellcore Shareholder upon its request copies of any Pre-Divestiture Software. With respect to such Pre-Divestiture Software which has not been destroyed prior to the effective date of the Amendment of this Agreement, Bellcore further agrees to give reasonable prior notice in writing to each Bellcore Shareholder before any such Pre-Divestiture Software is destroyed.

A Belleore Sharehold manay, without limitation or payment of any fee or compensation to Belleore, grant to any third person licenses for any Pre-Divestiture Software.

- 2.2 Bellcore hereby grants to each Bellcore Shareholder a non-exclusive, royalty-free, perpetual license to use, copy, enhance, and modify any Software for Designated Systems, as modified by Bellcore after divestiture and for which the Bellcore Shareholder was a Funding Participant in the Project whereunder such Software was modified. Bellcore agrees to deliver promptly copies of such Software for the Designated Systems, as modified by Bellcore after divestiture, to any Bellcore Shareholder licensed to use it at the request of such Bellcore Shareholder. A Bellcore Shareholder may, without limitation or payment of any fee or compensation to Bellcore, grant to any third person sublicenses for any Software for Designated Systems, as modified by Bellcore after divestiture and for which such Bellcore Shareholder was a Funding Participant in the Project whereunder such Software was modified. Each Bellcore Shareholder shall further have the right to modify and enhance, or to contract with others to modify and enhance, any Software for Designated Systems delivered to it.
- 2.3 Bellcore hereby grants to each Bellcore Shareholder a non-exclusive, royalty-free, perpetual license to use, copy, enhance and modify all Bellcore Software which was acquired, developed or modified under a Project as to which such Bellcore Shareholder was a Funding Participant. Bellcore agrees to deliver promptly copies of such Bellcore Software to any Bellcore Shareholder licensed to use it on the request of such Bellcore Shareholder.
- 2.4 Except as may be provided in Articles 2.7, 2.8, 7 and 8, each Bellcore Shareholder agrees that it will use Bellcore Software solely:
- (a) for its internal purposes (including providing goods and services, other than Computer Bureau Services, to its customers); and
- (b) to provide Computer Bureau Services, provided in such event the Belloore Shareholder shall pay Bellcore 10% of its gross receipts for such Computer Bureau Service.

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- 2.5 Each Bellcore Shareholder shall have me right to modify and enhance, or to contract with others to modify and enhance, any Bellcore Software delivered to it and may license its modifications and enhancements to any person having a license or sublicense to use the underlying Bellcore Software. Each Bellcore Shareholder may disclose such Bellcore Software to third persons solely for the purposes of enhancing, modifying or evaluating such Software, subject to the provisions of Article 9.10.
- 2.6 Belicore agrees to cooperate with any Belicore Shareholder to which Belicore Software or Pre-Divestiture Software has been delivered pursuant to this Agreement on matters of normal turn-up, application, documentation, maintenance, enhancements and training, at a fee mutually agreeable to Belicore and the Belicore Shareholder in accordance with Belicore standard costing procedures, such fee to apply only with regard to those Projects as to which the Belicore Shareholder was not entitled to receive such cooperation without additional fees as a Funding Participant under the Service Agreement.
- 2.7(a) If a Bellcore Shareholder is no longer supporting an item of Bellcore Software as a Funding Participant in an Elective Project under the Service Agreement, Bellcore agrees to deliver promptly to such Bellcore Shareholder on the request of such Bellcore Shareholder, made within a reasonable time of the cessation of funding, copies of such Bellcore Software related to such Elective Project as such Software existed at the date of the cessation of funding by such Bellcore Shareholder.
- (b) A Bellcore Shareholder receiving Bellcore Software in accordance with Article 2.7(a) agrees that it will use such Bellcore Software solely for the purposes set forth in Article 2.4, except as set forth in Article 2.7(c) and (d).
  - (c) Following cessation of such funding support, a Bellcore Shareholder
- (i) may sublicense to third persons such Bellcore Software only as significantly enhanced or modified by such Bellcore Shareholder, but for five (5) years following cessation of funding support such Bellcore Shareholder shall pay Bellcore a percentage of the established Bellcore Software license fee in existence at the time of cessation of such funding support (or a percentage of the maximum if a range of fees has been established for such Bellcore Software) as follows:

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During year 1, 90%

During year 2, 80%

During year 3, 60%

During year 4, 40%, and

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During year 5, 20%;

(ii) shall pay Belicore for each Computer Bureau Service using such Software for five (5) years following cessation of such support the following percentages of the gross receipts for such Computer Bureau Service:

During year 1, 9%

During year 2, 8%

During year 3, 6%

During year 4, 4%, and

During year 5, 2%

- (d) Bellcore shall determine and certify for any Bellcore Shareholder the fact that the enhancements or modifications to such Bellcore Software are significant, in accordance with prior established objective criteria.
- (e) After the passage of the five year period following cessation of funding of an item of Bellcore Software by a Bellcore Shareholder as a Funding Participant in an ongoing Elective Project, such Bellcore Shareholder may sublicense such Bellcore Software, whether enhanced or modified or not, to others without payment of any fees to Bellcore.

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2.8 If Bellcore is no longer engaged in the support or maintenance of any item of Bellcore Software, then any Bellcore Shareholder that was a Funding Participant of the Project, in which such item of Bellcore Software had been supported or maintained, at the time of the termination thereof, may sublicense such item or provide a Computer Bureau Service using such item without payment of any fees therefor to Bellcore and any Bellcore Shareholder that had ceased its funding support prior to such time of termination by Bellcore of its support or maintenance may also license the Software, or provide a Computer Bureau Service using the Software, as it received pursuant to Article 2.7(a), without the payments required by Article 2.7(c).

2.9 The parties agree that the delivery of any Software to a Bellcore Shareholder may be subject to a reasonable gathering, reproduction and delivery fee, such fee to apply only with regard to those Projects as to which the Bellcore Shareholder was not entitled to receive such cooperation without additional fees as a Funding Participant.

# Article 3. - Technical Information

- 3.1 Bellcore hereby grants to each Bellcore Shareholder a non-exclusive, royalty-free, perpetual license to use, copy, modify and enhance any Technical Information which was acquired or developed under a Project as to which such Bellcore Shareholder was a Funding Participant. Bellcore agrees to deliver promptly copies of such Technical Information to any Bellcore Shareholder licensed to use it on the request of such Bellcore Shareholder.
- 3.2 Each Bellcore Shareholder agrees that it will use such Technical Information solely for its internal purposes (including providing goods and services to its customers). Each Bellcore Shareholder may disclose such Technical Information to third persons for the purposes of enhancing, modifying or evaluating such Technical Information, and for the purposes of consultation and procurement, all subject to the provisions of Article 9.10.
- 3.3 If a Bellcore Shareholder is no longer supporting an item of Technical Information as a Funding Participant in an ongoing Elective Project under the Service Agreement, Bellcore agrees to deliver promptly to such Bellcore Shareholder upon request made within a reasonable time of the cessation of funding, copies of all such Technical Information related to such Elective Project as such Technical Information existed at the date of the cessation of funding by the Bellcore Shareholder. Each Bellcore Shareholder receiving such Technical Information in accordance with this Article agrees that it will only use such Technical Information for the purposes set forth in Article 3.2.

Article 4. - Patents

- 4.1 Bellcore hereby grants to each Bellcore Shareholder a non-exclusive, royalty-free license to make, use, sell, and have made under all Patents.
- 4.2 Any license granted hereunder shall continue in force for the term of the Patent or for the period for which Bellcore holds rights to grant licenses if shorter than the entire term.
- 4.3 Except as may occur by the exercise of a have made right by a Bellcore Shareholder, Bellcore shall have the exclusive right to grant to third persons non-exclusive licenses under any Patents, pursuant to procedures approved by its Board of Directors.
- 4.4 Any Belicore Shareholder which withdraws from ownership in Belicore shall continue to have a license under Article 4.1 under any Patents in existence or for which applications were pending as of the date of its withdrawal from ownership in Belicore.
- 4.5 Bellcore shall require all Bellcore employees to assign to Bellcore the rights to inventions, discoveries, improvements, and similar innovations made by its employees, either solely or jointly with other persons, in the course of their employment in research, engineering or other inventive activities.
- 4.6 Bellcore shall ensure that, except as may be specifically provided in Article 4.7, the licenses and rights granted hereunder shall not by any commitment or restriction.
- 4.7 The parties recognize that Bellcore may enter into a contract with the government of any nation or political subdivision or agency thereof, which contract may require that Bellcore assign or otherwise transfer its rights to Patents arising thereunder, with prejudice to its ability to grant rights to Bellcore Shareholders but without any liability therefor to the Bellcore Shareholders under this Agreement.
- 4.8 Nothing in this Agreement shall be construed as; (a) requiring the filing of any applications for Patents or the securing or maintaining of any Patents; (b) representing the validity or scope of any

Patents: (c) representing that the licensed use of any Patents had under be free of infringement of Patents except those licensed hereunder; or (d) agreeing to bring or prosecute infringement actions against third parties.

## Article 5. · Copyrights and Mask Works

- 5.1 Bellcore hereby grants to each Bellcore Shareholder a non-exclusive, royalty-free, perpetual license under all Copyrights resulting from a Project as to which such Bellcore Shareholder was a Funding Participant, including the right to make copies and derivative works thereof, provided that all copies, derivative works, and publications covered by a Copyright and made or published by a Bellcore Shareholder include an appropriate Copyright notice protecting the Copyright.
- 5.2 Any license granted hereunder shall continue in force for the term of the Copyright or for the period for which Bellcore holds rights to grant licenses if shorter than the entire term.
- 5.3 Belicore shall have the exclusive right to grant to third persons non-exclusive licenses under any Copyrights, pursuant to procedures approved by its Board of Directors.
- 5.4 Any Bellcore Shareholder which withdraws from ownership in Bellcore shall continue to have a license under Article 5.1 under any Copyrights in existence as of the date of its withdrawal from ownership in Bellcore and as to which the withdrawing Bellcore Shareholder was a Funding Participant prior to its withdrawal.
- 5.5 Bellcore shall require all Bellcore employees to assign to Bellcore the rights to works of authorship and all Copyrights in works made by its employees, either solely or jointly with other persons, in the course of their employment in research, engineering, or other Bellcore activities.
- 5.6 Bellcore shall ensure that, except as may be otherwise specifically provided in Article 5.7, the licenses and grants hereunder shall not be limited by any commitment or restriction.

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- 5.7 The parties recognize that Bellcorated ay enter into a contract with the government or any nation or political subdivision or agency thereof, which contract may require that Bellcore assign or otherwise transfer its rights to Copyrights arising thereunder, with prejudice to its ability to grant rights to Bellcore Shareholders but without any liability therefor to the Bellcore Shareholders under this Agreement.
- 5.8 Nothing in this Agreement shall be construed as (a) requiring the registration of any claim for Copyright; (b) representing the validity or scope of any Copyright; or (c) agreeing to bring or prosecute any infringement actions against third parties.
- 5.9 Bellcore hereby grants to each Bellcore Shareholder a non-exclusive, royalty-free license under all Bellcore Mask Works for which protection is acquired under the Semiconductor Chip Protection Act of 1984, resulting from a Project as to which such Bellcore Shareholder was a Funding Participant, including the rights (i) to reproduce the Mask Work by optical, electronic, or any other means; (ii) to import or distribute a semiconductor chip product in which the mask work is embodied; (iii) to induce or knowingly cause another person to do any of the acts described in (i) and (ii) for the benefit of said Bellcore Shareholder; and (iv) to sublicense third persons to manufacture semiconductor chip products in which the Mask Work is embodied solely for procurement by said Bellcore Shareholder.
- 5.10 Upon registration of a Mask Work with the Register of Copyrights, the other provisions of this Article 5 shall apply to Mask Works as well as to Copyrights.

# Article 6. - Licensing Principles and Allocation of Licensing Revenues

- 6.1 (a) Except as limited by Articles 6.1(b), (c) and (d), Belicore may grant to third persons non-exclusive licenses for any Belicore Intellectual Property in accordance with the Principles of Licensing set forth in Appendix B.
- (b) Grants of licenses of Major Software Systems to foreign telephone companies or their governing authorities for use outside North America shall be made only in accordance with the provisions of Article 8.

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- (c) No Bellcore Intellectual Property that is subject to an Access Period, as defined under the Service Agreement, shall be licensed during such Access Period other than by the Funding Participant of such Bellcore Intellectual Property.
- (d) Licenses of Major Software Systems may be granted to third persons other than foreign telephone companies or their governing authorities for use outside North America pursuant to terms and conditions authorized by the Bellcore Board of Directors.
- 6.2 License fees received by Bellcore with respect to licensing of Bellcore Software, Software for Designated Systems, or Technical Information shall (after deduction of licensing expenses, including any agent's fee) be treated in accordance with the provisions of the Service Agreement with respect to cost-sharing of non-affiliate revenue.
- 6.3 License fees received by Bellcore with respect to licensing of Patents shall (after deduction of licensing expenses) be divided equally among all Bellcore Shareholders as of the date of the receipt of the royalty income.
- 6.4 License fees received by Bellcore with respect to licensing of Copyrights or Mask Works shall (after deduction of licensing expenses, including any agent's fee) be divided as follows:
- (a) 50% of such license fee will be divided equally among the Bellcore Shareholders who, at the time the license is granted, are:
- (i) For an ongoing Project, Funding Participants—in its Project under which such Copyright was acquired, or
- (ii) For a completed Project, Funding Participants in the Project under which such Copyright was acquired at the time the Project was completed; and
  - (b) 50% of such license fee will be divided equally among all of the Bellcore Shareholders.

- 6.5. Subject to Section 6.1, any Belicore Schecholder may request Belicore to grant a license for Belicore Intellectual Property to a third person and Belicore will undertake to grant such license pursuant to a process approved by the Belicore Board of Directors.
- 6.6 No Bellcore Shareholder shall have the right to execute a sublicense of a Major Software System under the provisions of Article 8 or to act as an agent for licensing Bellcore Intellectual Property under the provisions of Article 7, unless such Bellcore Shareholder shall have been a Funding Participant for such Major Software System or such Bellcore Intellectual Property.

### Article 7. - Agency Arrangements

- 7.1 This Article applies to the licensing to third persons of all Bellcore Intellectual Property, except the sublicensing of Major Software Systems to foreign telephone companies or their governing authorities for use outside North America, as to which the provisions of Article 8 shall apply. All licensing of Bellcore Intellectual Property shall be consistent with the Principles of Licensing set forth in Appendix B.
- 7.2 Bellcore, while retaining its own right to license Bellcore Intellectual Property, hereby appoints each funding Bellcore Shareholder its agent for the sole purpose of arranging for licensing to third persons of any Bellcore Intellectual Property, except Patents. All such licenses of Bellcore Intellectual Property must be executed by Bellcore which has sole responsibility for the determination and justification of license fees. However, such Bellcore Shareholder may be entitled to an appropriate agent's fee for arranging for such a license.
- 7.3 The Bellcore Shareholder agency appointments shall not be limited in respect to any territory or geographic designation.

- 7.4 The licensing activities that can be performed by an agent include:
  - (a) initial licensee contact, including trade shows, and qualification and referral to Bellcore;
  - (b) demonstration of the Bellcore Intellectual Property;
- (c) maintenance of an inventory of brochures, catalogues, or other materials descriptive of the Bellcore Intellectual Property and the provision of such materials to potential licensees;
  - (d) licensee needs or benefit analysis;
  - (e) preliminary negotiation including preparatory work and assistance to Bellcore;
  - (f) installation support, if appropriate, for the Bellcore Intellectual Property involved; and
  - (g) licensee training and consultation and post licensing contacts and support.
- 7.5 Bellcore will solely be responsible for the coordination of activity of all agents, for maintenance of quality control for all materials disseminated by agents, and for all licensing contract negotiations arising from agent activity.
- 7.6 The agent compensation shall be 20% of the right-to-use fees received by Bellcore for so long as the agent is recognized by the third person as Bellcore's agent, but no agent compensation shall be paid on licenses involving right-to-use fees of less than \$100,000.
- 7.7 The agent compensation may be split between two or more agents. Any disputes as to the sharing of an agent fee between two or more agents or as to the level of compensation involved in an agent fee shall be determined by Bellcore on the basis of the effective efforts of the disputants to effectuate the license. Payment of agent compensation is due thirty (30) days after receipt of the license fee by Bellcore.
- 7.8 Each Bellcore Shareholder will determine for itself whether to act as an agent and for which Bellcore Intellectual Property it will represent Bellcore as an agent.

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Article 8. - Sublicensing Arrangement
For Major Software Systems Outside North America

- 8.1 Grants of sublicenses of Major Software Systems to foreign telephone companies or to their governing authorities for use outside North America shall be carried out exclusively pursuant to the provisions of this Article 8. All references to Bellcore Shareholder in this Article 8 shall include an Affiliate of a Bellcore Shareholder unless otherwise indicated. The 3cope of Bellcore's obligations to support such sublicensing shall be as follows:
- (a) In addition to the rights granted elsewhere herein, Bellcore hereby agrees that any Bellcore Shareholder which enters into a Memorandum of Understanding with Bellcore pursuant to this Article 8 may execute directly a sublicense of an object or executable code copy of the deliverable release of a Major Software System to a foreign telephone company or its governing authority for use outside North America (hereinaster "Customer"), except to a third person in or for use in one of the countries specified in Article 8.1(b) herein. A current list of such Major Software Systems is attached as Appendix C. Bellcore shall be responsible for updating this list from time to time to include any other Major Software Systems. All sublicensing pursuant to this Article 8 must be in the best interests of all Bellcore Shareholders and shall not impair Bellcore's performance in carrying out its work program for its Shareholders.
- (b) Major Software Systems shall not be sublicensed for use in Mexico, Portugal, Turkey and South American countries, or any other countries which do not provide at the time of such sublicensing adequate legal protection for Bellcore's Intellectual Property, unless appropriate authorities in such country provides written assurance that the Major Software System to be sublicensed will be adequately protected. Bellcore and the Bellcore Shareholders may agree to modify from time to time the enumerated countries to reflect the legal protection available in these or other countries.
- (c) A Bellcore Shareholder shall have the right to sublicense directly other Bellcore Software and Technical Information ancillary to the sublicensing of a Major Software System by (i) executing Bellcore's standard "Order Form" (a sample copy of which is attached as Appendix D and may be changed from time-to-time) and paying Bellcore's standard or listed prices thereon, if available, and (ii) obtaining

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from its Customer an agreement with respect to such ancillary Software and Technical Information that is consistent with the terms and conditions of Bellcore's Order Form.

- (d) The sublicensing of any copy of the source code for a Major Software System shall be at the discretion of Bellcore which shall be exercised: (i) so as to protect the investment of the Funding Participants of such Major Software System in Bellcore's ability to maintain such source code for their use in accordance with the Service Agreement and the Shareholders' Agreement and (ii) by applying a pricing methodology that recognizes the added capability provided to the sublicensee, any revenues that might be lost to Bellcore and the value of the remaining useful life of such source code.
- (e) The sublicensing of such Major Software Systems, ancillary Bellcore Software and Technical Information, all as specified in Appendix C1, with the additional right to allow a European Customer, or its Affiliate, to further sublicense and provide support for such Intellectual Property to other European telephone companies or their governing authorities shall be at the discretion of Bellcore which shall be exercised: (i) so as to protect the investment of the Funding Participants of such Intellectual Property in Bellcore's ability to maintain such Intellectual Property for their use in accordance with the Service Agreement and the Shareholders' Agreement; (ii) to permit, in the case of Software, the European Customer or its Affiliate to further sublicense such Software in object code form only; and (iii) by utilizing any terms and conditions approved by the Bellcore Board of Directors. Changes to this subparagraph (e) and to Appendix C1 may be authorized by unanimous vote of the Bellcore Board of Directors.
- (f) Bellcore's obligation to support a sublicensed Major Software System is dependent upon the continued funding of such system by one or more Bellcore Shareholders. If such funding ceases, Bellcore may either (i) continue support on terms to be agreed upon or (ii) deliver the source code as provided in this Agreement.
- 8.2 A Major Software System sublicensed under this Article 8 shall be subject to the following terms and conditions:
  - (a) The Bellcore Shareholder shall be responsible for making all contacts with a Customer to

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determine the suitability of a Major Software System for a Customer's needs.

- (b) The right of a Belleore Shareholder to sublicense a Major Software System will be conferred by and effective only upon the execution of a Memorandum of Understanding between Belleore and such Belleore Shareholder that is consistent with the provisions of this Article 8. Before an Affiliate of a Belleore Shareholder may sublicense a Major Software System it shall provide Belleore with authorization from its Belleore Shareholder permitting such Affiliate to enter into a Memorandum of Understanding with Belleore and shall provide backup indemnification from the Belleore Shareholder or another Affiliate of the Belleore Shareholder as authorized by the Belleore Shareholder or its Parent for all claims that may arise out of the sublicensing or operating of the Major Software System.
- (c) The Belleore Shareholder shall provide to Belleore (i) the Customer size information, based on the factors described in Appendix C of the Service Agreement, called for by Appendix E and (ii)

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Customer information regarding the scope and place of intended use, as needed to enable Belicore to calculate the Right-to-License Fee under Article 8.3.

(d) The Memorandum of Understanding shall indicate on which of the following two bases the Bellcore Shareholder shall have the right to sublicense the Major Software System to its Customer:

# (i) Qualified Support Basis:

At the Bellcore Shareholder's option, a Major Software System may be sublicensed on a Qualified Support Basis, which means that:

- (i-a) Belicore shall provide the existing documentation for a Major Software System to the Belicore Shareholder, which shall be responsible for the installation and implementation of the Major Software System in the Customer's operating environment. The installation and implementation shall satisfy Belicore's installation criteria for such Major Software System.
- (i-b) Bellcore shall be given the opportunity to inspect and, as necessary, test the installation and implementation of the Major Software System in the Customer's operating environment to determine if it meets Bellcore's specified installation criteria for such Major Software System.
- (i-c) If Bellcore determines that the installation and implementation reasonably satisfies its installation criteria, then Bellcore shall provide, if requested by the Bellcore Shareholder, maintenance releases and other support services as agreed to between Bellcore and the Bellcore Shareholder. The RTL Fee for any such maintenance releases shall be determined in accordance with the provisions of Article 8.3.
- (i-d) If Bellcore determines that the installation and implementation do not reasonably satisfy its installation criteria, then the Bellcore Shareholder shall, at its cost, undertake to satisfy such criteria.
- (i-e) Bellcore's cost of performing the aforementioned inspection and testing shall be identified and included in the calculation of fully loaded costs for determining the RTL Fee for such Major Software System. Such cost component for inspection and testing shall not exceed the greater of one staff year or five percent of such RTL Fee.

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### (ii) Full Support Basis:

At the Bellcore Shareholder's option, a Major Software System may be sublicensed on a Full Support Basis, which means that:

- (ii-a) Bellcore shall specify and provide the minimum level and type of installation and implementation services which are necessary, in the professional opinion of Bellcore's management, to ensure that the Major Software System is properly installed and is capable of meeting the Bellcore specified operating criteria for the system in the Customer's operating environment (see warranty provisions below).
- (ii-b) Bellcore shall provide such installation and implementation services, under the pricing formula for services indicated in Appendix E.
- (ii-c) Bellcore shall provide maintenance releases and other support services as agreed to between Bellcore and the Bellcore Shareholder. The RTL Fee for any such maintenance releases shall be determined in accordance with the provisions of Article 8.3.
- (ii-d) At the Bellcore Shareholder's request, the Bellcore specified operating criteria and Bellcore's firm quote price for its services can be provided to the Bellcore Shareholder at or within a reasonable time after the RTL Fee is quoted.
- (ii-e) To the extent consistent with policies authorized by the Board of Directors, Bellcore will provide all modifications and other support services as agreed to between Bellcore and the Bellcore Shareholder.
- 8.3 The determination of the RTL Fee, the means for making any adjustment of the Appendix E markup factors, and the obligation to pay such RTL Fee shall be as follows:
- (a) Belleore will quote the Belleore Shareholder the firm price for an RTL Fee for the . Customer designated, determined based on the formula set forth in Appendix E.
- (b) The formula for the firm quote price for the RTL Fee would have two components, cost and markup. The cost component would recover a portion of the system's development cost, allocated to the Customer based on size information and, for sublicenses made on a Qualified Support Basis, a subcomponent

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representing Bellcore's cost of inspection and testing. The markup somponent would be a standard fixed percentage added to a cost component as determined from the table set forth in Appendix E.

- (c) There would be no leeway for adjustment of the RTL Fee determined from the formula.
- (d) The Bellcore Shareholder's agreement to pay such RTL Fee would give the Bellcore Shareholder the right to execute a sublicense to the designated Customer to use the specified Major Software System configured according to information provided by the Bellcore Shareholder.
- (e) After December 31, 1990, Bellcore's Board of Directors may, upon the request of Bellcore or any Bellcore Shareholder, change prospectively the markup factors shown on Appendix E.
- (f) Once the Bellcore Shareholder has executed a sublicense agreement with a designated Customer, the Bellcore Shareholder's responsibility for payment of the RTL Fee to Bellcore shall be fixed and shall not be conditional on the Bellcore Shareholder's receipt of monies from the Customer. In addition, the Bellcore Shareholder shall be responsible for payment to Bellcore of charges incurred in connection with presales support, as provided for in Article 8.4.
- 8.4 Upon request of a Bellcore Shareholder, Bellcore will provide presales staff support for the requesting Bellcore Shareholder's marketing and contracting effort (e.g., presentations, proposal assistance, implementation studies, specification of operating criteria, etc.). The Bellcore Shareholder will pay Bellcore's fully loaded costs for providing such support. The support to be provided by Bellcore will be formalized in the Memorandum of Understanding, and the costs incurred will be billed to the Bellcore Shareholder monthly. The Bellcore Shareholder will be responsible for payment to Bellcore of these charges regardless of whether a sublicense is consummated.
- 8.5 Any services provided by Bellcore in support of a sublicense under this Article 8, including installation and implementation services, shall be priced under two options, firm quote price or cost plus.
  - (a) The Bellcore Shareholder shall elect either:
- (i) A firm quote price, which would include all estimated costs, as may be adjusted for inflation, and including a contingency factor (to be separately identified and disclosed to the Bellcore

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Shareholder in advance of its election) to cover estimating uncertainties for the firm quote option plus standard markups as described in Appendix E; or

- (ii) Cost plus, which would include all actual fully loaded costs plus the markup, as described in Appendix E. Bellcore's fully loaded costs will be calculated as described in Appendix B of the Service Agreement and will include, among other things, the cost of appropriate insurance coverage.
- (b) While Bellcore's normal practice is to provide firm quote prices on a year to year basis, under the firm quote price option involving long term (multi-year) transactions for large amounts of work, Bellcore will provide the Bellcore Shareholder with a firm quote price for the entire period if the Bellcore Shareholder requests it. However, if the actual costs in any year exceed the firm price quoted for that year, Bellcore shall be entitled to recoup these excess costs from the Bellcore Shareholder in the subsequent year in addition to any firm quote price already applicable to that year. Such readjustment shall be permitted year to year during the life of the project as necessary.
- (c) If additional modifications to the Major Software System should be required because the information previously supplied by the Bellcore Shareholder to Bellcore should change, or if the project is delayed or changed by the Bellcore Shareholder or the designated Customer, Bellcore would be given the opportunity to revise its firm quote price accordingly.
- 8.6 The Memorandum of Understanding between Bellcore and a Bellcore Shareholder also shall be subject to the following terms and conditions:
- (a) Bellcore shall have no direct contractual relationship with any Customer; the Bellcore

  Shareholder or an Affiliate of the Bellcore Shareholder as authorized by the Bellcore Shareholder or its

  -Parent will assume all responsibility for liability to its Customer or third persons resulting from the sublicense or the operation of the Major Software System in the Customer's environment and shall indemnify Bellcore for any such liabilities. The Bellcore Shareholder's liability and indemnity obligations under this paragraph shall not extend to claims of physical injury to persons or property arising solely from Bellcore's own negligence, gross negligence or willful misconduct.

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- (b) The Bellcore Shareholder will assure in its sublicense with any Customer that the Customer will indemnify the Bellcore Shareholder and Bellcore against any unauthorized use or disclosure of the Major Software System.
- (c) Before Bellcore shall perform any work for an Affiliate of a Bellcore Shareholder relating to the sublicense of a designated Major Software System, the Affiliate shall provide Bellcore:
- (1) Authorization from its Bellcore Shareholder for Dellcore to perform the requested work, pursuant to the Service Agreement, and
- (2) Indemnification to Bellcore, guaranteed by the Bellcore Shareholder or by a financially responsible Affiliate, other than the sublicensing entity, of the Bellcore Shareholder as authorized by the Bellcore Shareholder or its Parent.
- (d) Except as provided in the Service Agreement and in Article 6.1(c) with respect to Belicore Intellectual Property subject to an Access Period, no Belicore Shareholder or any Customer will be entitled to any exclusive rights in any Belicore Intellectual Property. At all times Belicore shall continue to own all Major Software Systems including any modifications or enhancements thereto developed by Belicore at the request of a Belicore Shareholder.
- (e) Belicore and the Belicore Shareholder shall undertake to protect each other's and the Customer's proprietary information, in accordance with the provisions of this Agreement and the Service Agreement, and the Belicore Shareholder will assure in its sublicense with any Customer that the confidentiality of Belicore's Intellectual Property will be protected and, except as otherwise provided in Article 8.1(c), that its use of such property shall be limited solely to the support of Customer's own internal requirements, which may include the provision of telecommunications services. Any such sublicense entered into by a Belicore Shareholder shall recognize that Belicore shall have the right, if it so chooses, to protect its ownership of and interest in its Major Software System independently of any action by the Belicore Shareholder.
- (f) All sublicensing of Major Software Systems shall be consistent with and, to the extent appropriate, incorporate the provisions of this Agreement, the Shareholders' Agreement and the Service Agreement.

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- (g) Each Memorandum of Understanding shall be consistent with this Article 8 and shall not be impose obligations on any Bellcore Shareholder not a party thereto.
- (h) If a Bellcore Shareholder violates the terms of its Memorandum of Understanding with Bellcore relating to the sublicensing of a Major Software System, Bellcore shall have the right to terminate such agreement and shall be entitled to any remedies allowable by law.
- 8.7 In connection with the sublicensing of Major Software Systems under Article 8 of this Agreement, Bellcore is authorized to provide the following warranties and related support:
  - (a) With respect to a Major Software System sublicensed on a Qualified Support Basis:
    - (i) Bellcore shall warrant that the sublicensed Major Software System is a true and correct copy of the Major Software System provided to the Funding Participants of that Major Software System and, if not, Bellcore shall, within thirty (30) days of delivery, provide a new copy of the Major Software System without charge.
    - (ii) If Bellcore determines that the Major Software System has been installed and implemented in accordance with its installation criteria, Bellcore shall, upon the request of the Bellcore Shareholder, provide maintenance releases and other support services as agreed upon between Bellcore and such Bellcore Shareholder.
  - (b) With respect to a Major Software System sublicensed on a Full Support Basis, Bellcore shall, provided Bellcore has had sufficient opportunity itself to assess the Customer's environment, warrant that the such sublicensed Major Software System will, when installed, meet its specified operating criteria in the Customer's operating environment.
  - (c) With respect to any customizations, modifications, or support provided by Bellcore at the Bellcore Shareholder's request, Bellcore shall warrant that the same shall conform in type and scope to the specifications and work description agreed to between the Bellcore Shareholder and Bellcore.

- (d) With respect to installation, implementation, and maintenance serviced provided by Bellcore at the Bellcore Shareholder's request, Bellcore shall warrant that it will employ expert personnel trained in accordance with generally accepted professional standards.
- (e) THE WARRANTY CONTAINED IN THIS ARTICLE 8.7 IS EXCLUSIVE AND NO OTHER WARRANTY BY BELLCORE IS EXPRESSED OR IMPLIED. BELLCORE HEREBY DISCLAIMS ANY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED WITH RESPECT TO ANY MAJOR SOFTWARE SYSTEM, AND INFORMATION THEREUNDER, AND SERVICES PROVIDED BY BELLCORE IN CONNECTION THEREWITH FURNISHED TO A BELLCORE SHAREHOLDER OR AFFILIATE INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALL SUBLICENSES SHALL LIMIT WARRANTIES ON MAJOR SOFTWARE SYSTEMS IN ACCORDANCE WITH THE FOREGOING AND ANY WARRANTY MADE BY A BELLCORE SHAREHOLDER TO ITS CUSTOMER THAT IS SUPPLEMENTAL TO THIS WARRANTY SHALL NOT CONSTITUTE AN OBLIGATION OF BELLCORE OR ANY OTHER BELLCORE SHAREHOLDER.
- 8.8 THE LIMITATION ON LIABILITY AND REMEDY PROVISIONS OF ARTICLE 8
  OF THE SERVICE AGREEMENT ARE INCORPORATED HEREIN AND SHALL BE
  INCORPORATED IN ANY MEMORANDUM OF UNDERSTANDING.

#### Article 9. - Miscellaneous Provisions

- 9.1 If any Intellectual Property is protectable both as proprietary information (Articles 2 or 3) and a statutory right (Articles 4 or 5), the provisions of Articles 2 or 3 of this Agreement shall take precedence over the provisions of Articles 4 or 5 in case of non-uniformity in the rights and obligations set forth.
  - 9.2 Neither this Agreement nor any licenses or rights granted hereunder shall be assignable or otherwise transferable except to an acquirer of a withdrawing Bellcore Shareholder's interest in Bellcore, in accordance with the Shareholders' Agreement.

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9.3 Alithis Agreement and any agreements entered into under the provisions of Article 8 shall be subject to termination or modification as required under the continuing jurisdiction of the Court under the MFJ.

- 9.4 u In the event that and to the extent that the provisions of the Shareholders' Agreement conflict with the terms of this Agreement, the provisions of the Shareholders' Agreement shall control.
  - 9.5 This Agreement shall be governed by the laws of the State of New Jersey.
- 9.6. All notices and demands of any kind in connection with this Agreement shall be in writing and shall be sent by certified mail to the respective parties as follows:

Ameritech Services, Inc. 1900 East Golf Road Schaumburg, Illinois 60173 Attention: General Counsel

Bell Atlantic Network Services, Inc. 1310 North Courthouse Road Arlington, Virginia 22201 Attention: General Counsel

BellSouth Services Incorporated 600 North 19th Street Birmingham, Alabama 35203 Attention: General Counsel

NYNEX Services Company 120 Bloomingdale Road White Plains, New York 10605 Attention: General Counsel

Pacific Bell 140 New Montgomery Street San Francisco, California 94105 Attention: General Counsel

Southwestern Bell Telephone Company 1010 Pine Street St. Louis, Missouri 63404 Attention: General Counsel U S WEST Advanced Technologies, Inc., agent for The Mountain States Telephone and Telegraph Company Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone Company 6200 So. Quebec Englewood, Colorado 80111 Attention: General Counsel

Bell Communications Research, Inc. 290 West Mt. Pleasant Avenue Livingston, New Jersey 07039
Attention: General Counsel

The foregoing addresses may be changed at any time by written notice to the other parties.

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- 9.7 This Agreement shall not provide third persons with any remedy, claim, liability, reimbursement, claim of action or other right in excess of those existing without reference to this Agreement.
- 9.8 If any provision of this Agreement shall be held invalid or unenforceable, the remainder of this Agreement shall not be affected thereby and the remaining terms shall continue in effect and be binding on the parties. If any party is prevented from performing any of the provisions of this Agreement by any governmental order, judicial decree, regulation or statute, it will be relieved of its obligation to perform that provision which it is prevented from performing, and the remaining terms shall continue in effect and be binding on the parties.
- 9.9 This Agreement may be executed in any number of counterparts, each of which shall be an original; but such counterparts shall together constitute but one and the same instrument.
  - 9.10 All information provided by Bellcore to a Bellcore Shareholder pursuant to this Agreement, the Service Agreement or otherwise, which is marked by Bellcore as proprietary shall be treated by each Bellcore Shareholder as confidential, using the same degree of care it employs for its own information of like sensitivity. The Bellcore Shareholder shall not disclose such information to any party not affiliated with such Bellcore Shareholder (except pursuant to specific provisions of this Agreement), unless and until such information (1) has come into the public domain through no fault of such Bellcore Shareholder or (2) is otherwise in such Bellcore Shareholder's possession. Free of any obligation of

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confidentiality. A Bellcore Shareholder shall not disclose any such information to a third person, as may be permitted in accordance with this Agreement, unless and until such third person has agreed in writing to protect and respect the confidentiality and proprietary nature of such disclosed information and, except as otherwise authorized herein, to use such information solely in support of such Bellcore Shareholder's business activities, which writing shall be made available to Bellcore upon its request.

- 9.11 (a) Each Bellcore Shareholder grants to Bellcore a non-exclusive, nontransferable license to use any information furnished by such Bellcore Shareholder to Bellcore as follows: (1) such information may be used by Bellcore only in connection with its performance for such Bellcore Shareholder of work under one or more Projects as designated by such Bellcore Shareholder or as may be authorized in writing by such Bellcore Shareholder and; (2) such license and right to use shall expire upon termination of the licensing Bellcore Shareholder's obligations under the Service Agreement unless otherwise agreed to by the parties. Such information remains the property of the licensing Bellcore Shareholder and shall be returned thereto by Bellcore, if requested by the licensing Bellcore Shareholder, upon the expiration of the license.
- (b) Any information received by Bellcore from a Bellcore Shareholder, either pursuant to the Service Agreement or otherwise, which is marked by such Bellcore Shareholder as proprietary shall be treated by Bellcore as confidential, using the same degree of care it employs for protecting its own information of like sensitivity. Bellcore shall not disclose such proprietary information of the owning Bellcore Shareholder to any third party or other Bellcore Shareholder without the prior written consent of the owning Bellcore Shareholder (except as may be agreed to by the parties or as provided for in Article 9.17) unless and until such information (1) has come into the public domain through no fault of Bellcore or (2) is otherwise in Bellcore's possession free of any obligation of confidentiality.
- 9.12 If any party materially breaches its obligations of Article 9.10 or 9.11 with respect to the use and disclosure of proprietary information which has been transferred to it, such party may be determined to be in default and be subject to an appropriate remedy for such default, as set forth in Article 8.3 of the Service Agreement. Notwithstanding such remedy and in addition thereto, any party may seek injunctive

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relief from a court of competent jurisdiction to enjoin any unauthorized use or disclosure of another party's proprietary information.

- 9.13 Notwithstanding any grant of rights hereunder, if a Bellcore Shareholder is in default in a payment due Bellcore under the Service Agreement, such Bellcore Shareholder may be subject to forfeiture of certain rights to licenses under Software, Technical Information or Copyrights, as set forth in Article 8.3(a)(1) of the Service Agreement.
- 9.14 The provisions of Article 9.10 and 9.11 shall continue to apply to information designated as proprietary hereunder notwithstanding the expiration or termination of the Service Agreement or the withdrawal of any Bellcore Shareholder from an Elective Project.
- 9.15 Bellcore agrees to indemnify, hold harmless and defend the Bellcore Shareholders against all actions or suits by third parties charging copyright or trade secret infringement arising out of the Bellcore Shareholder's use of information transferred to it by Bellcore pursuant to this Agreement or the Service Agreement and, further, will indemnify, hold harmless and defend each Bellcore Shareholder against all actions or suits charging Patent infringement where the alleged Patent infringement was a direct result of the use of such transferred information, provided that Bellcore will not indemnify, hold harmless or defend a Bellcore Shareholder where the alleged infringement involves the procurement from a third party of goods or services in the same form as provided by that third party in general trade and commerce.
- all actions or suits by third parties charging copyright of trade secret infringement arising out of Bellcore's use of information transferred to it by such Bellcore Shareholder pursuant to the Service Agreement and, further, will indemnify, hold harmless and defend Bellcore against all actions or suits charging Patent infringement where the alleged Patent infringement was a direct result of the use of such transferred information, provided that such Bellcore Shareholder will not indemnify, hold harmless or defend Bellcore where the alleged infringement involves the procurement from a third party of goods or services in the same form as provided by that third party in general trade and commerce.

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- 9.17 If any party accepted with lawful process or a bona fide request by a judicial, administrative or regulatory body or staff to disclose any proprietary information in its possession which is owned or controlled by another party in accordance with this Agreement or the Service Agreement, such party required or requested to make such a disclosure shall give notice thereof to every other affected party. In addition, such party required or requested to make such a disclosure shall use its best efforts to make such a disclosure only subject to a suitable protective order or other adequate provisions to safeguard against further disclosure.
- 9.18 For all purposes of this Agreement, The Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone Company shall collectively be deemed to be one Bellcore Shareholder, and each of these corporations shall be jointly and severally liable for the obligations as one Bellcore Shareholder under this Agreement and shall designate in writing a single representative whose vote shall be binding on all three corporations on any matter on which a Bellcore Shareholder vote is required or authorized.
- 9.19 Belicore hereby acknowledges that under the related company doctrine of trademark law each Belicore Shareholder may use any trademark, service mark, acronym, or other unique identification of any service which is to be offered to the public by a Belicore Shareholder, which has been described, developed or taught by Belicore, and which results from a Project as to which such Belicore Shareholder was a Funding Participant, and each Belicore Shareholder acknowledges the rights of each other Belicore Shareholder that was such-a Funding Participant to use such Belicore originated trademark, service mark, acronym or other unique identification. However, notwithstanding the above, the Belicore Shareholders have no such licenses or rights with respect to any trademarks or service marks related to goods or services which are provided by Belicore to such Belicore Shareholders.
- 9.20 The parties agree that all rights granted herein to the Bellcore Shareholders may be exercised by their respective Affiliates for so long as they remain Affiliates and subject to the same obligations of the Bellcore Shareholders as set forth in this Agreement.

- 9.21 The ownership of and all rights with respect to course and training materials prepared by the Bellcore Technical Education Center (Bellcore TEC) and funded out of tuition revenues paid to Bellcore TEC shall not be governed by this Agreement but shall be in accordance with the Bellcore TEC Agreement.
- 9.22 Except as qualified by Article 9.21; ownership of the intellectual properties which Bellcore acquires, develops, or modifies under the Service Agreement shall reside in Bellcore and rights thereto shall be governed by the applicable provisions of this Agreement. Nothing herein shall affect the ownership of intellectual properties provided to Bellcore for modification or further development.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be signed by their duly authorized representatives.

AMERITECH SERVICES, INC. 1900 East Golf Road Schaumburg, IL 60173

EC France

BY: Bruce R. DeMaeyer

DATE: 11-9-88

BELL ATLANTIC NETWORK SERVICES, INC.
1310 North Courthouse Road
Arlington, VA 22201

BY: R. W. Smith

DATE: 11-16-88

BELLSOUTH SERVICES INCORPORATED 600 North 19th Street Birmingham, AL 35203

BY: Hugh B. Jacks

DATE: 11-16-88

NYNEX SERVICE COMPANY 120 Bloomingdale Road White Plains, NY 10605

BY: P. D. Covill

DATE: 11-7-88

PACIFIC BELL 140 New Montgomery Street San Francisco, CA 94105

BY: M. A. Kaplan

DATE: 12-5-88

SOUTHWESTERN BELL TELEPHONE COMPANY 1010 Pine Street St. Louis, MO 63101

BY: C. E. Foster

DATE: 11-29-88

U S WEST ADVANCED TECHNOLOGIES, INC., as agent for THE MOUNTAIN STATES-TELEPHONE AND TELEGRAPH COMPANY, NORTHWESTERN BELL TELEPHONE COMPANY and PACIFIC NORTHWEST BELL TELEPHONE COMPANY

BY: W. J. Wade DATE: 12-8-88

BELL COMMUNICATIONS RESEARCH, INC. 290 West Mt. Pleasant Avenue
Livingston, NJ 07039

BY: R. J. Marano DATE: 11-3-88

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#### **ACRONYM**

#### SYSTEM NAME

ACAS
ACCESS CHARGE ANALYSIS SYSTEMS
ACC CHG
ACCESS CHARGE ANALYSIS
ADBS
ACCESS DATA BASE SYSTEM
ADMIN
ADMINISTRATION OF 08 DATA SYSTEMS
AIM(AIMS)
APPLICATION INFORMATION MANAGEMENT SYSTEM
ANCOF
ANNUAL COST FACTORS
APSS
ACCESS PROFITABILITY STUDY SYSTEM

APTS AUDIT PROGRAM TRACKING SYSTEM
ATLISS ANTITRUST LITIGATION INFORMATION SYSTEM

BACAS
BARGAINING & CONTRACT ADMIN SYSTEM
BUILDING ADMINISTRATION MANAGEMENT SYSTEM
BUSINESS CUSTOMER ANALYTIC PROFILE SYSTEM
BECS/COMTOC
BROADBAND EQUIPMENT CHARACTERISTICS/COST OF

MULTIPLEX TERMINAL AND OTHER COMMON

BELLSTAT BELL SYSTEM STATISTICS

BERPM BASIC EXCHANGE RATE PLANNING MODEL
BESMIS BASIC EXCH SERVICE MANAGEMENT INFO SYS

BITS
BUSINESS INTERIM TRACKING SYSTEM
BELL LEGAL INFORMATION SYSTEM
BOC APPL STUDY
BOC NETWORK DATA LIFE MANAGEMENT

BOCCS BOC COMPENSATION SYSTEM

BOFADS BUSINESS OFFICE FORCE ADMINISTRATION SYST

BOLD BELL ON-LINE DOCUMENTATION BRECS BRE COMPENSATION SYSTEM

BRIS BUSINESS REVENUE INFORMATION SYSTEM

BRL/CCM
BUY/RENT/LEASE COPIER CONFIGURATION MODEL
BSBIS
BELL SYSTEM BUDGET INFORMATION SYSTEM
BSBPA
BELL SYSTEM BUDGET PLANNING ANALYSIS
BSPAS
BELL SYSTEM PRODUCTIVITY ANALYSIS SYSTEM

BSPDB BELL SYSTEM PERSONNEL DATA BASE

BSPDB REPRTS BSPDB REPORTS

BSPD/NAAP BSPDS/NAAP REPORT SYSTEM
BSSP BELL SYSTEM SAVINGS PLAN
BSVCP VOLUNTARY CONTRIBUTION PLAN
BUILDTRK BUILDING COST INFORMATION SYSTEM

CAFE CORE ANALYTIC FRONT END

CAMI CORE ANALYTIC MODEL INTERFACE

CAPCOST CAPITAL-COST-140DEL: 4

CAPMANI CAPACITY MANAGEMENT SYSTEM
CAPS CUSTOMER ANALYTIC PROFILE SYSTEM
CAS COMPENSATION ACCOUNTING SYSTEM

CASHFLO COMMERCIAL PAPER MODULE OF CASHFLO SYSTEM

CATS CREDIT CARD AND THIRD NUMBER SYSTEM
CBS&A CONSTRUCTION BUDGET SUMMARY & ANALYSIS

CCALL CHARACTERISTICS

CCSTT CUSTOMER CALLING AND TOUCH TONE MODELING
CCUAP COMPUTERIZED CABLE UPKEEP ADMIN PROGRAM

CDS CUSTOMER DEFINITION SYSTEM

CEDARS COMPUTER EVALUATION OF DECISION ANALYSIS
CES ESTIMATED FUTURE CO. AND AREA CODE REQUIREMENT

CIM CAPITAL INVESTMENT MODEL

APPENDIX A Page 2 of 6

#### ACRONYM

#### SYSTEM NAME

	•
CIM-OVAL	CAPITAL INVESTMENT MODEL - VALUATION
CIS	COMPETITIVE INFORMATION SYSTEM ,
CMRS	COIN MESSAGE REPORTING SYSTEM
COCUS	MON. CO. & AREA CODE USAGE & EXHAUST
COMADS	COMPUTERIZED ADDRESS DISTRIBUTION SYSTEM
COMPAR	COMMUNICATIONS COST COMPARISON SYSTEM
CONTRAK	CONTRIBUTION TRACKING
CORE	CORE ANALYTIC FINANCIAL MODEL
COSTGEN2	COST MODELING
	COST MODELING COST OF SERVICE TRAFFIC USAGE STUDY
COSTUS	CRIS DATA CATALOG
CRIS	CUSTOMER RECOGNITION PROCESS SANST
CRP	
CRS	CENTRALIZED RESULTS SYSTEM
CS/PL	CIRCUIT STUDY/PRIVATE LINE
CSRS	CENTRALIZED SALES REFERENCE SYSTEM
CSTAT	CORPORATE STATISTICS DATA BASE
CUCRIT	CAPITAL UTILIZATION CRITERIA
D&FDBS	DEMAND & FACILITY DATA BASE SYSTEM
D-DAS	DDS-DATA ACQUISITION SYSTEM
DAPR	DATA PROFILE
DARCIS	DIRECTORY ASSISTANCE RATE & COST INFO SYS
DARCS	DEMAND ANALYSIS REPRICE CHANNEL SYSTEM
DCAS/WC	DATA COLLECTION AND ANALYSIS SYSTEM/WIRE CENTER
DCATS	DEMAND AND CAPACITY ANALYSIS TRACKING SYSTEM
DDITS	DEPRECIATION AND DEFERRED INCOME TAX SYSTEM
DDSSTA	DATAPHONE DIGITAL SERVICE STATUS
DECA 1&2	DUAL ELEMENT COST ASSIGNMENTS-VERSIONS 1&2
DIAL/MARC .	DIAL/MARKET ANALYSIS OF REVENUE & CUSTOMER
DILSO	DIAL LINE SERVICE OBSERVING
DM SCORS	DIRECT MKTING SALES CENTER OPERATIONS REP
DMAP	DEMOGRAPHIC ANALYSIS PACKAGE
DOPS	DETAILED OUTSIDE PLANT STUDY
DPS	DISCRETIONARY PROJECT SELECTION SYSTEM
DRIT	DATA REQUEST INFO TRACKING SYS
DRS	DEPOSIT REPORTING SYSTEM /
DSCS	DEPRECIATION STUDIES COMPUTER SYSTEM
DSEDS	DISTRIBUTION SERVICE ENGINEERING DISTRIC SIZES
EAMS	EXCHANGE ACCESS MEASUREMENT STUDY
ECEMS	EMPEDDED COST OF EXCHANGE OF EXCHANGE MSG STUDY
ECMS	EMPLOYEE COMMUNICATION MESSAGE SYSTEM
ECS	EXCHANGE COST STUDY
ECS	ENGINEERING CATALOGUE SYSTEM
ECTS	EQUIPMENT COSTS TABLE SYSTEM
EDA	EMBEDDED DIRECT ANALYSIS
EDA CALC	EMBEDDED DIRECT ANALYSIS - DISAGREGATION (CALC)
EIS/PAIRS	EXPERIENCE INFO SYS/PRODUCT ANALYSIS RPT SYS
EMASS	EXTERNAL MECHANIZED ALLOCATION STUDY SYST
EG01	DEPRECIATION SYSTEM
EG02	DEPRECIATION SYSTEM .
ENERGY	ENERGY SYSTEM
ENERGY 2	ENERGY 2 DATABASES

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#### **ACRONYM**

#### SYSTEM NAME

ESIS
ELECTRONIC SWITCHING INVESTMENT SYSTEM
ESOP
EMPLOYEE STOCK OWNERSHIP PLAN
CO. VERTICAL STUDIES
ELECTRONIC INFORMATION SERVICE
FAADMI
ADMIN GUIDE COMPONENTS

FABS FUNCTIONAL ACCOUNTING BUDGET SYSTEM .

FABS/CR FINANCIAL ANALYSIS BUDGET SYSTEM/COMPTROLLERS

RESULTS

FAMIS FORECASTING & MONITÓRING INFORMATION SYST

FAMP TS FASC ACCTG, MONITORING PLAN

FARS FINANCIAL ADMINISTRATION REPORTS SYSTEM FAST FLEET-SIZE ANALYSIS & SENSITIVITY TECHNIQUE

FCS FORMS CONTROL SYSTEM

FIC FACILITY INVESTMENT CALCULATOR

FINAN FINANCIAL ANALYSIS

FINITS FINANCIAL INFORMATION SYSTEM

FMBA FINANCIAL MANAGEMENT BUDGET ANALYSIS
GELDECS GEN. OF EQUIP LISTS & DESIGN ENSEMBLE FOR
GENOSWTS OPERATOR SERVICE WORK TIME STUDIES

GOAL AFFIRMATIVE ACTION GOALS SYSTEM

HASS HEALTH AND SAFETY SYSTEM

HFLAC HIGH FREQUENCY LINE ACTIVITY AND COST

HIS HOME INFORMATION SYSTEM

IADS INTEGRATED ADMINISTRATION DATA SYSTEM

IBIS INSTALLED BASE INFO SYSTEM

ICAFS INDEPENDENT CARRIER FORECAST SYSTEM ICONS INDEPENDENT TELCO NETWORK DATA BASE

ICS INTERSTATE COST SYSTEM

ICSA INTERSTATE COST SYSTEM ANALYSIS

IFFAS INTEGRATED FACILITIES AND FORCE ADMINISTER
IFITS INTEGRATED FEDERAL INCOME TAX SYSTEM
IFPS INTERACTIVE FINANCIAL PLANNING SYSTEM

IFS INTERACTIVE FLOW SIMULATOR

I/ICA I/I CIRCUIT ÀNALYSIS

I/ICS INTERSTATE/INTEREXCHANGE CHARACTERISTICS STUDY

IIS INSTRUCTOR INFORMATION SYSTEM IMA INEFFECTIVE MACHINE ATTEMPTS

IMARKS INVESTMENT MANGMT ANAL-& RECD KEEPNG SYS IMPACT INTEGRATED MANAGEMENT PRODUCT ACTIVITY TR

IPAC INTERACTIVE PLANNING AND CONTROL

IRR INTERNAL RATE OF RETURN ISOPDB ISO PLANNING DATABASE

ITCAP INTERIM TOC COST ANALYSIS PROGRAM

L&B LAND AND BUILDINGS

LADS LATA ANALYSIS DATA SYSTEM

LATA LOCAL ACCESS AND TRANSPORT AREA
LATAWATS PROVIDE INPUT-REPRICE WATS BY LATA
LIFE-CYCLE COST STUDY SYSTEM

LIFE-CYCLE COST STUDY SYSTEM
LIFMOD-V3
LIFE-CYCLE MODEL - VERSION 3
LIPMOD
LABOR INPUT PRODUCTIVITY MODEL
LOOPNVST
LOOP INVESTMENT CALCULATION

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#### **ACRONYM**

#### SYSTEM NAME

	•	
ć	LRSS/ECON	LONG RANGE SWITCHING STUDIES/ECONOMICS
ć.	LSD&F	LOCAL SWITCHED DEMAND AND FACILITY DATA BASE SYSTEM
24	MACS	MECHANIZED ANALYSIS OF COST STUDIES
,	MADCAP	MAILING ADDRESS COMPUTER SYSTEM ,
	MAPSS	MAINTENANCE AND ANALYSIS PLAN FOR SPECIAL SERVICE
	MARC	MARKET ANALYSIS OF REVENUE AND CUSTOMERS (
	MARS	MESSAGE AND REVENUE ANALYSIS
	MASCOT	MONITORING & APPT SYS BY COMPUTER FOR OTC
	MASER	MECHANIZED ADMINISTRATION SWITCHING EQUIP
	MASS	MECHANIZED ALLOCATION STUDY SYSTEM
:	MATS	MECHANIZED ANALYSIS OF TRAFFIC STUDIES
	MCAS	MECHANIZED ADMINISTRATION SYSTEM
	MCC	MAINTENANCE CONTROL CENTER
	MEDCAP	MEDICAL COSTING OF ACTIVITIES & PROCEDURE
	MFAS	MECHANIZED FORECASTING AND ANALYSIS (E-S300)
	MICD	MARKETING INTERCOMPANY COMM DIRECTORY
	MIG	MECHANIZED INTERVAL GUIDE SYSTEM
	MIGS	MECHANIZED INDEX GENERATION SYSTEM
	MIMIC	MTS/WATS INTRASTATE MODEL FOR INCREMENTAL COSTS
	MIND	MODULAR INTERACTIVE NETWORK DESIGN
	MITRE	MESSAGE AND REVENUE ANALYSIS
	MMS	MARKETING MEASUREMENT SYSTEM
	MMS/SSII BRE	MMS SUPPORT SYSTEMII-BRE MKEG
	MORT	MORTALITY DATA BASE
	MOVIMS	MOTOR VEHICLE INFORMATION MANAGEMENT SYSTEM
	MPS	
	· ·	MASTER PATENT STYSTEM
	MPTS	USAGE OF MPTS
	MRSS	MINI-COMPUTER RELIABILITY STUDIES SYSTEM
	MSM	MULTI-STATE MARKETING
	MTSI	INTERACTIVE INTERSTATE MESSAGE TELECOMM SVES
	MUSIC	MODEL FOR USAGE SENSITIVE INCREMENTAL COS
	MVAS	MOTOR VEHICLE ACCIDENT SUMMARY REPORT
	MVMCC	MOTOR VEHICLE MAINT CONTROL CENTER
	M520	NON-CAPITALIZED LEASE SYSTEM
	NAAP REPORTS	BS PDB/NAAP REPORTS
	NAFMP	NETWORK ADMIN. FORCE MGMT. & PRODUCTIVITY
	NCIS	NON-RECURRING COST INTERFACE SYSTEM
ore Service	NCR STUDY	NATIONAL CREDIT STUDY
<u>, aritra</u>	NCRP	NETWORK COST RESULTS PLAN
	NCSR	NETWORK COMPLETION STUDY RATES
	NE/FMS	NETWORK ENGINEERING FORCE MANAGEMENT SYSTEM
	NERCE	NETWORK RESPONSE TIME & CONFIGURATION EVA
	NETTIMS	MECHANIZATION OF TAP ADMINISTRATIVE REPORTS
	NIMS	MSM-NAE INQUIRY MANAGEMENT SYSTEM
	NOTES/DB	NETWORK OPERATIONS TECHNICAL SUPPORT/DATABASE
	NOTIS	NETWORK OPERATIONS TROUBLE INFORMATION SYSTEM
	NPIS	NETWORK PLANNING INFORMATION SYSTEM
	NSMRS	NATIONAL SELF MONITORING REPORT SYSTEM
	NTC	N&T CARRIES SYSTEM
	NUA	NETWORK UTILIZATION ANALYSIS
	NVTS	NATIONAL VENDOR TRACKING SYSTEM

#### ACRONYM

#### SYSTEM NAME

OCIPS	OPERATING COMPANY INTEGRATED PLANNING SYSTEM
ODA	NOT AVAILABLE
ODOD	OPERATOR DIFFERENTIAL OVER DIAL COST STUDY
ODP	ORGANIZATIONAL DESIGN PROGRAM .
OSAC	OPERATOR SPEED OF ANSWER CONSISTENCY.
OSFABS	OPERATOR SVCS FUNCTIONAL ACCTING BUDGETING
OSPD&F	OPERATOR SVCS CONSTRUCTION BUDGET MANAGEMENT
OSPDBS	OUTSIDE PLANT DATA BASE SYSTEM
OSPI	OPERATOR SERVICES PLANNING INFORMATION SYSTEM
OSTNP-1	OPERATOR SERVICES TRAFFIC NETWORK PLAN PH
PACO	POLE ATTACHEMENT CONDUIT OCCUPANCY
PACS	POLITICAL ACTION COMMITTEE SYSTEM 555
PCS	PRICE COMPARISON STUDIES
PDIS	PROCUREMENT DECISION INFORMATION SYSTEM
PENSFUND	PENSION FUND RECORD KEEPING & REPORTING SYS
PFS	PENSION FIELD SYSTEM
PIPES	PROGRAM FOR INVENTORY PIPELINE ESTIMATION
PIPES/PLUGS	PROGRAM FOR INVENTORY PIPELINE ESTIMATION
PJU	POLE JOINT USAGE
PLAN	NOT AVAILABLE
PLANT	PLANT PERFORMANCE DATA GATHERING
PLIAC	PRIVATE LINE INVESTMENT AND ANNUAL COSTS
PPD	PERIODIC PARTIAL DISTRIBUTION
PPS	PERFORMANCE AND PLANNING SYSTEM
PRINTS	PUBLIC RELATIONS INFO NET TRANS SYSTEM
PRIRS	PUBLIC RELATIONS INFO RETRIEVAL SYSTEM
PRISM	PLANNING & REPOSITION OF INTERXCHG'SERVICE MODEL
PRMS	PRESS RELATIONS MESSAGE SYSTEM
PROS	PRIVATE LINE RATES OPTIMIZATION SYSTEM
PS INCOME	PUBLIC SVCS - INCOME STUDY
PSDS	PUBLIC SWITCHED SVCS - AGGREGATED DEMAND ANALYSIS
	MODEL
PTIMA	PUBLIC TELEPHONE INSTALLATION & MAINTENANCE ADMIN.
PTIPP	PUBLIC TELEPHONE INSTALLATION PERFORMANCE
QAS	QUALITY ASSURANCE SYSTEM
QES	QUICK ESTIMATION SYSTEM
QUICSTAT	QUICK ANALYSIS OF TRAFFIC DATA & INDEP COMPANY
RAFT	RESOURCE ALLOCATION
RAPUD	REVENUE ANALYSIS FROM PARAMETRIC USAGE DESCRIPTION
REIMS REVGEN2	REAL ESTATE INFORMATION MNGMT SYSTEM REVENUE MODELING
REVGENZ	REVENUE EVALUATION SYSTEM
RIVAL	REVENUE-INTERCITY VULNERABILITY ANALYSIS
RMP/WP	RESULTS MEASUREMENT PLAN/WORD PROCESSING
ROMMS	RESIDENCE OFFICE METHODS MANAGEMENT SYSTEM
RSFM	RESIDENCE SEGMENT FINANCIAL MODEL
SAF	SERVICE AREA FUNCTION
SAOBS	SALES AID ORDERING & BILLING SYSTEM
SASS	SICKNESS ABSENCE SUMMARY SYSTEM
SAV	STATISTICALLY ADJUSTED VALUE
SC-EACS	SERVICE COSTS-ECONOMIC ANALYSIS & COMPARI
	TELL TELL TELL TOTAL CHARLES IN A COUNT WITH

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·ACRONYM	SYSTEM NAME
SCADDS	DEVELPT. OF COSTS FOR DDS FILINGS
SCAM/USOC	SYSTEM CODE ADMINISTRATION AND MAINTENANCE
SCCANS	SYNCHRONIZED CODE CONTROL & NOTIFICATION
SCIS	SWITCHING COST INFORMATION SYSTEM
SEPMOD	SEPARATIONS PLANNING MODEL
SEPSTAT	SEPARATIONS PLANNING MODEL - STATISTICS
SESKED	SERVICE EVALUATORS SCHEDULING
SLUS	SUBSCRIBER LINE USAGE SYSTEM
SMACS	SYSTEM FOR MEDICAL ADMIN & CLINICAL STATI
SMART(SMARTS)	
SMCA	SENIOR MANAGEMENT COMPENSATION ANALYSIS
SNAC	STANDARD NETWORK ANNUAL COST
SOSS	SAMPLE OFFICE SELECTION SYSTEM
SPICE	SIMPLIFIED PEAK INCREMENTAL CIRCUIT ESTIMATOR
SPMS	SALES PERFORMANCE MEASUREMENT SYSTEM
SSM	STATE SEPARATIONS MODEL
SSP	BELL SYSTEM SAVINGS & SECURITY PLAN (NON-
STATLIB	STATISTICAL COMPUTING LIBRARY
STATOC	SERVICE & TECHNOLOGY ANALYSIS WITH TOC
SWAT	SCIENTIFIC WATS ANALYSIS TECHNIQUES
SWIN	SWITCHING INVENTORY
TAMP	TRUNK ADMINISTRATION MEASUREMENT PLAN
TASP	TOLL ALTERNATIVES STUDIES PROGRAM
TBDS	TRAFFIC BUDGET DATA SYSTEM
TCWATS	TARIFFS & COSTS WATS MODELING
TDEAS	TASK DATA ENTRY & ANALYSIS SYSTEM
TELSAM	TELEPHONE SERVICES ATTITUDE MEASUREMENT
TFTS	TRUNK FORECAST TRACKING SYSTEM
TMDS	TRAINING MEASUREMENT & DATA SYSTEM
TNICS	TOTAL NETWORK INFO AND COSTS SYSTEM
TONIC	T OR N INVESTMENT CALCULATOR
TRAC	TRACKING REVENUE & COST SYSTEM
TRACS(PL)	TRANSLATION OF ROUTE & AIR CHARACTERISTICS
TRISS	TRAFFIC ITEM SUMMARIZATION SYSTEM

TRAFFIC ITEM SUMMARIZATION SYSTEM

**TSAM** TARIFF SIMPLIFICATION & MECHANIZATION

TSPC/ODOD TSPC/ODOD

TRAFFIC USAGE FORECASTING SYSTEM TUFS

UNIVERSAL SERVICE ORDER/STDS DOCUMENTATION CONTR USO/SDCS

**VAPAY VACATION PAY FROM DATABASE** 

**VRPM VOLUME DIMENSION TRACKING ANALYSIS** VEHICLE SCHEDULING OPTIMIZATION SYSTEM **VSOS** 

WATSPI WATS PRICE INDEX

WEBR WESTERN ELECTRIC BILLING REPORTS

CLASS W ECONOMIC ANALYSIS WECAN **WRPM** WATS RATE PLANNING MODEL

WRS WORK RELATIONSHIP ANALYSIS SAMPLE **SEDOPS** SESS DIGITAL ORDERING & PLANNING SYSTEM **DDITSO** DDD-INCOMING TRUNK SERVICE OBSERVING SYSTEM

SESOR SERVICE EVALUATION SYSTEM OUTPUT RESULTS

TRANSMISSION EVALUATION SYSTEM TREST

TRUNK TRANSMISSION MAINTENANCE INDEX TTMI

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#### PRINCIPLES OF LICENSING

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Bellcore shall license its Intellectual Property to third persons in accordance with the principles below:

- 1. Licensing shall be in the best interests of the Bellcore Shareholders, shall not impair Bellcore's performance in carrying out its work program, and shall accord with the desires of the Bellcore Shareholders as expressed by Bellcore Board of Directors in the Shareholders' Agreement.
- 2. Bellcore is responsible for licensing its Intellectual Property in accordance with process(es) approved by the Bellcore Board of Directors.
- 3. Bellcore shall treat third persons licensed at the same time with equivalent non-discriminatory terms.
- 4. Pricing for licenses shall be market-based except as specifically provided for in the Intellectual Property Agreement and structured to conform to all applicable legal requirements.

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## BELLCORE DEVELOPED MAJOR SOFTWARE SYSTEMS AS OF 9/1/88

CAMIS

COINTM SYSTEM

COSMOS

CUSTUMate TM SYSTEM

**EPLANS** 

EXACT<sup>TM</sup> MAINFRAME SOFTWARE

FACS

LEISTM SYSTEM

LSS

MIZAR

NMA

NPS

PICS

PREMIS

SEASTM SYSTEM

SSFS

TELEGATE<sup>TM</sup> SYSTEM

TIRKS\* SYSTEM

TNDS/EQ

TNDS/TK

WFA

Revised May 16, 1989

TIRKS is a registered trademark and COIN, CUSTOMate EXACT, LEIS, SEAS and TELEGATE are trademarks of Belleore.

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TIRKS\* System Modules (all Release Level 15.2 except OPS/INE)

, j

S1, TTS
GOC, CI/INV
PCF
F1
E1/EQP, E1/REF
C1/PREP
C1/CDS (PRO/CDS)
C1/MDS
TCI/DIST
TSEND
TQS
TDIF
TCM
OPS/INE Release 3.0

¥

FEPS System Modules

FEPS - Release 15.2 SCS - Release 15.2 PWS - Release 4.3

LTS - Release 1.3

TIRKS is a registered trademark of Belicore.

Added July 17, 1989



@ Pel Communications Research

	<del></del>			·	_
Company Name	Date of	Order	Customer P	urchase Order No.	
Company Address	City	State Zip	Code		-
in accordance with the TERMS a the above-identified CUSTOMER collowing machines:	nd CONDITIONS with one copy of	printed on the BELLCORE T	reverse side ASKMATE Se	herein, please furnis	h e
Location:(Bidg. City, State)		Туре	٠ ،	-Serial No.	
† 1	•		<del></del>	<del></del>	
(Continue List on Separate Page) Total No. of Machines	@ \$ 1,250.00 (U @ \$ 1,000.00 (U	.S.) (2-5 copi	es)	\$	
nterpreter	(Call for prices in	-	re man 3)		
Location (Bidg. City, State)		Type	*,	Serial No.	
# 1 # 2	· ·				
(Continue List on Separate Page)	<del></del>				1
otal No. of Machines	@ \$125 (2-5) (Call for prices i	n quantities m	ore than 5)	<del></del>	
Included in Basic Price - one cop	y of Interpreter per	Development	Module Orde	red	
Applicable Taxes:	State Local			<del></del>	
International orders (except Cana				<del></del>	
add shipping and handling charge	of \$49.50			S	
	Total Order Fee			\$	
CUSTOMER shall enclose paym cormally ships orders via an expresorm.  Charge to: (check one):	ess carrier within 48	hours of rece	ipt of this exc	scuted order	
Number	Exp. Date _	Signatu	16		`~
authorized signature r		. Ship	le:	<del></del>	-
AGREEING TO TERMS AND (	CONDITIONS)	<del></del>	<del></del>	<del> </del>	- [
Name and Title (Please print or t	ype)	*			-
Phone:	<del></del>				_
CUSTOMERs located in the follo	owing states shall is	nclude applica	ble state and farvland, Ma	local taxes: Arizon	a, a,
New Jersey, North Carolina, Obio	, Oklahoma, Penna	ylvania, Texa	, and Wiscon	sin	
California, Colorado, D.C., Flor New Jersey, North Carolina, Obic or Bellcore Use	Oklahoma, Penns Data Accepted by Bell	ylvania, Texas	For Bellevre T:	sin	

#### 2.0 OPERATING ENVIRONMENT

Herdwere 1

or IBM Personal Computer AT or PCXXT with 3270 Personal Computer AT® with 640k bytes of memory, • IBMe PS2 Models 50 and 60, or IBM 3270 PC/XT or

- A hard disk, for workflow development.
- . PC DOS, release 2.0 or higher
- व्य क्राइक्टर • 3270 Personal Computer Control Program, release 3.0
- 3270 PC High Level Language AFI, release 3.0
- 3.0 LICENSE GRANT
- sublicease or use by others including owners, subsidisries business operations and not for export, re-export, resale, DELIVERABLES for use solely in its own internal exclusive and paid-up right to receive a copy of the 3.1 CUSTOMER is granted a personal, nontransferable, non-
- DELIVERABLES against obsolescence. 3.2 BELLCORE assumes no responsibility for protecting the
- ad raben magit ile bas 23.18AREVILEG ade ni BELLCORE which retains title to the intellectual property 7.5 All materials furnished bereunder are copyrighted by
- 4.0 LIMITED WARRANTY

or alfillates of CUSTOMER.

- ad bluode to abant el erauborg et sa notisabnamimones oN scoepted professional standards and applicable regulations. interpret their contents in accordance with generally appropriate degree of experience to understand and therein are directed solely to professionals who have the 4.1 The DELIVERABLES and the information contained
- to stab adv mont advoce months from the date of free from defects in materials and workmanship under 4.2 BELLCORE werrants that the deliverable media shall be
- has been prepared from sources deemed to be reliable, 25.18ASTATUTE at the information ordinates the DELIVERABLES
- Machines Corporation. IBM and Personal Computer AT are registered trademarks and PCAT is a trademark of international Business

TASKMATE, ORDER 082688, 1700P

DESCRIPTION

to be accomplished. as entering data, recording results and deciding on the next task worksteadon and up to four host sessions, performing such tasks DR a grome to nobstatiow DR anola binate a ta swoft dear development tool and workstation manager used to sutomete BEITCORE, IVEXWATE Software is % program

Parter, Interpreter, Customization and Data Maziagement. Configuration, Screen Paint, Generator, Intergente, Capture, TASKMATE Software includes eight aubsystems:

- System files, • The Configuration Subsystem is the margaginal all Taskmate
- PERSONAL FOR SUBSECTION AND THE TAXONATE The Scroen Paint Subsystem is used to define formatted PC.
- layouts, PC screen layouts, sequential file layouts, and direct • The Generator Subsystem is used to define host screen
- into a TASKMATE workflow. session, play back the recording, and translate the recording • The Intersective Capture Subsystem is used to record a bost
- for syntax and semantics. statement contained in a TAMMZAT workflow and check it The Paract Subsystem is used to examine each program
- produced by the Paract Subsystem and executes the • The Interpreter Subsystem reads the TASIGMATE code
- reserved for system calls, The Customization Subsystem permits control of the memory.
- . Inc Date Management Subsystem provides a means for
- The Interpreter Subsystem is offered as a separate module for performing data maintenance functions.

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or Smith min . . .

#### LEKWZ YND CONDLUONZ

- 1.0 DELIVERABLES:
- 1'1 DEVELOPMENT PACK
- . One copy of three 5 Me" or two 3 M2" floppy disks
- · One copy of a User's Manual
- · One Copy of a Reference Manual
- 1.2 INTERPRETER SUBSYSTEM
- . One copy of two 5.1/4" or one 3 I/2" floppy disk

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BELLCORE reserves the right to revise the views expressed herein without notice. Unless the CUSTOMER is under separate applicable written agreement with BELLCORE. BELLCORE MAKES NO REPRESENTATION OR WARRANTY THAT THE INFORMATION ·CONTAINED IN THE DELIVERABLES CONFORMS TO ANY STATUTE. GOVERNMENTAL RULE OR REGULATION, AND MAKES NO OTHER REPRESENTATION OR WARRANTY INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. BELLCORE SHALL NOT BE HELD LIABLE BEYOND THE AMOUNT OF ANY SUM RECEIVED IN PAYMENT FOR THE WITHIN DELIVERABLES WITH RESPECT TO ANY CLAIM AND IN NO EVENT SHALL BELLCORE BE LIABLE FOR LOST PROFITS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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4.4 BELLCORE's entire liability and CUSTOMER's exclusive remedy shall be the replacement of any defective deliverable media which is returned to BELLCORE within three months of shipment.

#### 5.0 GENERAL

- 5.1 CUSTOMER will pay or reimburse Bellcore for any and all sales or use taxes, duties, withholding taxes or levies however denominated (hereafter "TAX") imposed by any authority, government or government agency arising out of any transaction associated with the LICENSED INFORMATION including any agreement for services, support, maintenance or grant or right in connection with the LICENSED INFORMATION. If Belicore is required to collect a TAX to be paid by CUSTOMER, CUSTOMER shall pay such TAX to Bellcore on demand. If CUSTOMER shall be required to withhold any sum from payment, the amount so withheld shall nevertheless be deemed to be still pwing to Bellcore and the amount thereof shall promptly be paid to Bellcore to overcome the effect of such withholding. Any additional withholdings that may be occasioned by such last mentioned payment shall be overcome in the same manner as the original withholding.
- 5.2 The construction and performance of this Order will be governed by the laws of the State of New Jersey.
- 5.3 The terms hereof set forth the entire understanding between CUSTOMER and BELLCORE superseding all prior discussions.
- 5.4 No provision appearing on any form originated by CUSTOMER shall be applicable unless such provision is expressly accepted in writing by BELLCORE from date of shipment.

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APPENDIX E
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#### BELLCORE SHAREHOLDER OR AFFILIATE

### SUBLICENSING ARRANGEMENT

#### PRICING FORMULA

1. FOR EXISTING INTELLECTUAL PROPERTY RIGHT-TO-LICENSE FEE, INCLUDING COMMON MAINTENANCE & ENHANCEMENTS

QUANTITATIVE

RTL FULLY LOADED SIZE FACTOR

FEE = TOTAL COSTS X OF CUSTOMER X MARKUP

#### MARKUP TABLE

X OF 1.65

FULLY LOADED
TOTAL COSTS # MARKUP

\$5.0M - \$10.0M 1.50 \$10.0M+ 1.35

#INCLUDES DEVELOPMENT, MAINTENANCE AND ENHANCEMENTS.
II. SERVICES

#### A) FIRM QUOTED PRICE BASIS

**FQP** 

**ESTIMATED** YEAR I SERVICES **FULLY LOADED** MARKUP X OF 1.45 FQP COSTS **ESTIMATED** YEAR 2 **SERVICES FULLY LOADED MARKUP** COSTS X OF 1.55 FQP **ESTIMATED** YEARS 3 SERVICES **FULLY LOADED MARKUP** 

#### B) COST PLUS BASIS

& BEYOND

YEARS 1 - 5 SERVICES ACTUAL FULLY MARKUP
COST PLUS - LOADED COSTS X OF 1.25

COSTS

National Security Emergency Preparedness

# BELL COMMUNICATIONS RESEARCH, INC. FUNDING FOR NATIONAL SECURITY/EMERGENCY PREPAREDNESS

THIS AGREEMENT is between Bell Communications Research, Inc., a Delaware Corporation formed in accordance with and as a result of the Modification of Final Judgment entered by the United States District Court for the District of Columbia on August 24, 1982 in United States v. WESTERN ELECTRIC COMPANY et al. (Civ. No. 82-0192).

and

American Information Technologies Corporation, Bell Atlantic Corporation, BellSouth Corporation, NYNEX Corporation, Pacific Telesis Group, Southwestern Bell Corporation and U S West, Inc.; being the seven Regional Holding Companies formed as a result of the divestiture mandated by that same Modification of Final Judgment or their respective designated stockholder in Bell Communications Research, Inc. (hereinafter "Regional Companies")

WHEREAS the said Modification of Final Judgment provides in part as follows:

Notwithstanding separation of ownership, the BOCs may support and share the costs of a centralized organization for the provision of engineering, administrative and other services which can most efficiently be provided on a centralized basis. The BOCs shall provide, through a centralized organization, a single point of contact for coordination of BOCs to meet the requirements of national security and emergency preparedness.

NOW, THEREFORE, IT IS HEREBY AGREED BETWEEN Bell Communications Research, Inc. and the Regional Companies executing this Agreement that:

1) Bell Communications Research, Inc. shall serve as the single point of contact for the Regional Companies to meet the requirements of National Security and Emergency Preparedness (hereinafter "NS/EP").

- 2) The President of Bell Communications Research, Inc. shall certify to the Board of Directors of the Bell Communications Research, Inc. the level of funding necessary for the Bell Communications Research, Inc.'s NS/EP group.
- 3) With the advice and counsel of the President of Bell Communications Research, Inc., the Regional Companies hereby agree that they will fund the NS/EP activities at a level that shall not be less than that certified by the President of Bell Communications Research, Inc. to be needed for the NS/EP group to perform its functions effectively, and that they will not withdraw funding from Bell Communications Research, Inc. for the said NS/EP functions and they will pay annually to Bell Communications Research, Inc. the amount determined by the Board of Directors of Bell Communications Research, Inc. to be their respective share of said funding.
- 4) It is understood that the NS/EP related services provided hereunder will be billed to the Federal Agency requesting the service by the individual BOC or Bell Communications Research, Inc.

IN WITNESS WHEREOF the parties hereto have executed this agreement this 6th day of...

March 1984.

Ameritech Services, Inc. 225 W. Randolph Street Chicago, Illinois 60606 By: [Signed] L. J. Rutigliano

Title: President

By: [Signed] W. M. Newport

Title: Executive Vice-President

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BellSouth Services, Inc. 600 N. 19th Street Birmingham, AL 35201

By: [Signed] Hugh B. Jacks

-3-

Title: President

NYNEX Service Company 400 Westchester Avenue White Plains, New York 10604

By: [Signed] Paul D. Covill

Title: Executive Vice-President

Pacific Bell 140 N. Montgomery Street San Francisco, California 94105

By: [Signed] T. J. Saenger

Title: President

Southwestern Bell Telephone Company 1010 Pine Street St. Louis, Missouri 63101

St. Louis, Missoull 03101

By: [Signed] Joe H. Hunt

Title: Executive Vice-President

Bell-Tri-Co. Services Company 1600 Bell Plaza Seattle, Washington 98191

By: [Signed] A. V. Smith "

Title: President

Bell Communications Research, Inc. 290 W. Mt. Pleasant Avenue Livingston, New Jersey 07039

By: [Signed] J. Kenneth Looloian

Title: Secretary

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PLEXIBILITY PROYISIONS

•

(moving monies from one

PROJECT

(exceeding Authorised Budges)

NEW PROJECTS (establishing new Projects)

Project to another)

Representative Written Approval upon Project Authorized Owner

. Less than or equal to \$10M

MULTI-CLENT-PQP

ELECTIVE

If amount is:

[ 1

Not Applicable

Written Approval of Authorised Owners' Representatives and

Belicore's CEO or Designee

Approval

Not Applicable

Board Approval

Agreement of all Participants Termination by Unanimous

Board Approval upon Project Termination by Unanimous Agreement of all Participants (reference Article 8.9(c))

. Greater than \$10M

(reference Article 5.3(a))

CLIENT-SPECIFIC-PQP No doller limitation

Not Applicable

Written Approval by Authorited Owner

Representative and Agreed to by Bellcore

Not Applicable

(reference Article 6.3(b))

Revised Per Beard Resolution 05/03/28

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Appendix A

# FLEXIBILITY PROVISIONS

PROJECT	BUDGET PLEXIBILITY (moving monies from one Project to another)	NEW PROJECTS (establishing new Projects)	OVERRUNS (exceeding Authorised Budget)
LECTIVE MULTI-CLENT-NON-PQP			
ff amount in: Creater than 5% with a minimum resulting value of \$2,500 or \$5,000 regardless of percent	Not Applicable	Not Applicable	Timely Written Notification and Explanation by Bellcore to Owner-Clients
Greater than 15% of project cost or 84M (whichever is 1000)	Not Applicable	Not Applicable	Board Approval
. Less than or equal to \$10M	Written Approval of Authorized Owners' Representatives and Agreed to by Bellcore	Written Approval of Authorised Owners' Representatives and Belleore's CEO or Designee	Not Applicable
Grater than \$10M	Board Approval	Board Approval	Not Applicable
	(reference Article 8.9(s) and 8.9(c))	(reference Article 8.3(n) and 8.9(c))	(reference Article 6.9(b))
CLIENT-SPECIFIC-NON-FQP  No dollar limitations	Not Applicable	Written Approval by Authorised Owner Representative and Agreed to by Bellcore	Written Authoriantion by Authorized Owner Representative
		(reference Article 6.3(b))	(reference Article 6.4(b))

#### OVERVIEW

#### BELLCORE COST ACCOUNTING/ALLOCATION PROCESS

The overriding goal in developing the Cost Accounting/Allocation Process (CAAP) was to establish a procedure which would accurately report the financial status of Bellcore and equitably bill our Customers via specific work endeavors. CAAP is designed to achieve five key objectives:

- Accurately measure all incurred costs by the "cost causers", regardless of whether it is directly or
  indirectly authorized by an organization.
- Minimize the possibility of cross-subsidization by insuring that all cost streams are properly charged to the appropriate Project.
- 3. Establish matrix cost management control environment and provide that all incurred costs are identified by organizations and expense categories and that all billed costs are identified at a work package level by organization and expense categories.
- 4. Provide auditability which can be accomplished in a reasonable time frame by internal and external auditors, our Owners and regulators.
- 5. Insure that costs Bellcore incurs in performance of Projects are directly charged or distributed to the Projects in a manner consistent with the terms of this Service Agreement and Generally Accepted Accounting Principles.

In view of the above, Belicore's billing process ensures that Customer bills for Projects are based on the aggregation of the actual cost streams charged to a Project/work package, and a size factor unique to each Customer, with the one exception of the Firm Quoted Price Projects. Firm Quoted Price (FQP) Projects are billed to Customers based on budget estimates. Monthly, a comparison is made between revenues and costs

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of FQP Projects with the difference booked as a normalization expense adjustment to each department. At the end of the quarter, a review will be made to determine action to be taken based on the normalization is amount. An explanation of the billing process is described in the Bellcore Billing and Billing Allocation Process Overview.

QAAP provides that actual cost streams are disaggregated into two major categories, Departmental

Expenses and Corporate Costs. These costs are defined and charged out to Projects as explained below:

#### 1. Departmental Expenses

Departmental Expenses are all expenditures incurred directly by an organization. These costs include all salaries and all expenditures for contracted services, purchases of materials and supplies, rentals for buildings, computers, telecommunication services and equipment, maintenance and repair of buildings and computers, utility expenses and other miscellaneous expenditures such as employee relocation costs, travel expenses, and tuition.

Departmental Expenses are disaggregated into two subcategories which are as follows:

#### 1. External Project

An External Project is any Project undertaken for a billable Customer. External Project costs include all departmental direct expenses which are directly related to an External Project/work package.

Salaries for all Direct Charging Professional Employees (DCPE) along with their associated departmental expenses represent the bulk of these charges.

#### 2. Internal Project

An Internal Project is an administrative and accounting mechanism utilized to accumulate and allocate departmental costs which are not immediately chargeable to an External Project. These costs are assigned to one of three accounting pools as follows:

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Appendix B

#### 2.1 Organization Support Pool

An Organization Support Pool includes those directly incurred costs of a 5th level organization which cannot be directly assigned to its External Projects, but are indirectly associated with the development of External Projects/work packages within that 5th level organization. The Organization Support Pool also includes costs of the Vice President-Administration Support Organizations. These expenses are charged to the External Projects/work mackages based on the proportion of DCPEs working on the Projects. Client Program Manager Support Internal Projects are allocated based on total External Project cost within each Client Program. Client Program Development Support Internal Projects are allocated to External Projects based on total headcount.

#### 2.2 Service Center Pool

A Service Center Pool includes those costs for support functions which are performed on a centralized basis (e.g., computer processing, graphics, technical publications, secretarial and clerical, word processing, reproduction and landlord services) and can be assigned to either an External or Internal Project based on a usage measurement. Costs associated with building administration are assigned to either an External or Internal Project based on management headcount.

#### 2.3 Common Support Pool

A Common Support Pool includes those costs for support functions which are performed on a centralized basis (e.g., Comptrollers, Executive, Legal, Personnel, Corporate Communications, Medical and Corporate Security Organizations) which cannot be assigned to an External or Internal Project based on usage. Common support costs for Comptrollers, Executive and Legal are charged to both External and Internal Projects based on Departmental Direct Cost plus Capital/Émployee Related Corporate Costs and ROI. Common support costs for Personnel,

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Appendix B

#### 3. Property Taxes

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Property Taxes are added to the total landlord services Service Center Pool and are charged-back on the basis of assigned square footage.

#### 4. Return on Investment (ROI)

Return on Investment (ROI) includes return on equity (Net Income) and associated Federal and State Income Taxes, and interest on debt. These costs will be allocated to Common Support, Service Center and Organization Support Pools based on net assets utilized. ROI is allocated from 5th level organization support pools to External Projects based on total headcount. Net Income may be adjusted upward or downward if there is a difference in revenues and actual cost of Firm Quoted Price Projects. Monthly, this difference is normalized pending management review.

#### 5. Other Corporate Costs

Other Corporate Costs include sales and use tax, insurance premiums, workers' compensation, liability claims, and corporate contributions. These costs are assigned to the Common Support, Service Center and Organization Support Pools as well as External Projects based upon total Bellcore employee headcount.

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#### **BUY-IN PROCESS**

#### **OVERVIEW:**

For an Owner-Client who chooses to buy in to a Multi-Client or Client-Specific Project which is based on fully loaded costs, the buy-in procedures shall be as outlined in the example below, using actual costs as the basis for apportionment with revenue, including risk fee and interest, credited to the Participant(s) in proportion to each such funding Owner-Client's Project Cost. For an Owner-Client who chooses to buy in to a Client-Specific Project, which is based on Firm Quoted Price, or to the new Firm Quoted Price Multi-Client Project which results from the initial buy-in prior to or during the first full calendar year of the new Multi-Client Project, the same methodology shall apply, provided that: a) following the initial buy-in, the Client-Specific Project is terminated and a new Firm Quoted Price Multi-Client Project is established; b) each time a buy-in occurs, new Firm Quoted Prices are established based on the actual number of Participants and the Project's original budgeted costs, except when the addition of Participants increases costs; c) the funding Participants receive a credit which consists of the associated revenues, risk fee and interest in proportion to their respective participation.

Any buy-in to such a Project after the first full calendar year shall be handled in accordance with the provisions described below for Multi-Client Projects. For a buy-in to a Multi-Client Project based on a Firm Quoted Price where such buy-in occurs prior to or during the first full calendar year of the Project, the risk fee and interest shall be credited to the Participants in the Project in proportion to their respective participation, and the balance of the revenues shall be dealt with in accordance with Article 6.4(a)(1). For a buy-in to a Multi-Client Project based on a Firm Quoted Price where such buy-in occurs after the first full calendar year of the Project, risk fee and interest shall be credited to the Participants of the Project, in proportion to their respective participation. Revenues associated with the Firm Quoted Price(s) applicable prior to the calendar year in which the buy-in occurs shall be credited to the Participants in the Project, in proportion to their respective participation. Revenues associated with the Firm Quoted Price applicable to the calendar year in which the buy-in occurs shall be dealt with in accordance with Article 8.4(a)(1).

Revised per Board Resolution October 4, 1989

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#### EXAMPLE: \_\_

In 1994, Owner-Client "A" decides to "buy-in" to Project XYZ, effective 1/1/95. The Project began in 1989 with Owner-Client "B", "C", "D" and "F" as Participants. Annual costs for 1989 to 1994 were \$75.00, \$60.00, \$100.00, \$150.00, \$125.00, and \$150.00, respectively, and 1% over Prime interest rates during those years were 10%, 9%, 8%, 9%, 10%, and 8%, respectively.

In calculating the buy-in price, the following calculations would be made given the assumptions:

#### ASSUMPTIONS:

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- (1) Owner-Client "A" is allocated 20% of each year's funding.
- (2) Total annual costs will be divided into 12 amounts, each amount due at the end of the month.
- (3) Interest is compounded monthly, and starts the day payment is due.
- (4) Risk fee is 10% pursuant to Section 3.7 of the Shareholders' Agreement.

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# EXAMPLE (Continued)

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		1989	1990	1991	1992	1993	1994	1/1/95 PRESENT WORTH
AVERAGE ANNUAL INTEREST RATE		10%	9%	8%	9%	10%	8%	F 
								اي
ALLOCATED YEARLY COST	MONTHLY AMOUNTS	, <del></del>	VALUE .	AT END	OF YEA	.R		
\$15.00	\$1.25	\$15.71	\$17.18	\$18.61	\$20.35	\$22.48	\$24.35	\$24.35
12.00	1.00		12.51	13.55	14.82	16.37	17.73	17.73
20.00	1.67			20.75	22.70	25.07	27.15	27.15
30.00	2.50				31.27	34.54	37.41	37.41
25.00	2.08					26.18	28.35	28.35
30.00	2.50					٠.	31.12	31.12
\$132.00	= Total Allocated	PRE	SENT W		F TOTA		CATED	\$166.11
	Yearly Costs	RISK	FEE (10	0% OF \$	166.11)			+ 16.61
		TOT	AL BUY	-IN AMC	UNT			\$182.72

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# EXAMPLE (continued)

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# OWNER DISTRIBUTION OF BUY-IN MONIES

#### **ASSUMPTIONS**

- (1) Project XYZ is allocated on the basis of Allocation Factor Values using the Average of TOE/TPIS.
- (2) Following reflects each Owner-Client Allocation Factor Values in terms of Percent prior to Owner-Client "A" participating.

OWNER-CLIENT		PERCENT
В		26.3
c ·	•	24.5
D		26.1
F		23,1
		100.0

For Buy-in to Projects based on fully loaded costs, the credits received by each of the current Owner-Client Participants are as follows:

(1)	(2)	(3)	· (4)
			PROPORTIONATE
		PRESENT WORTH OF	SHARE
	PERCENT OF	TOTAL ALLOCATED	OF CREDIT
OWNER-CLIENT	TOTAL	YEARLY COSTS	(2) x (3)
В	26.3	\$166.11	\$43.69
C	24.5	166.11	40.70
Ď	26.1	166.11	43.35
F	23.1	166.11	38.37
TOTAL	100.00		\$166.11

For their share of the risk fee, each of the current Owner-Client Participants would receive credit of:

(1)	(2)	(3)	(4)
OWNERCCEENT	PERCENT OF TOTAL	RISK FEE	PROPORTIONATE SHARE OF CREDIT (2) x (3)
В	26.3	\$16.61	\$4.37
C	24.5	16.61	4.07
D	26.1	16.61	4.33
F	23,1	16.61	3,84
TOTAL	100.00	·	\$16.61

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EXAMPLE (continued)

# METHODOLOGY FOR CALCULATING BUY-IN: TO CLIENT-SPECIFIC PROJECTS SUPPORTED BY NET VENDOR CONTRIBUTION (\$K)

# ASSUMPTIONS:

- (1) Annual Client-Specific Project Cost or FQP is \$1,000.0K for Owner-Client #1. ..;
- (2) Owner-Client #1 provided Net Vendor Contribution Data (Column "A")
- (3) All Owner-Client Allocation Factor Values are Equal.
- (4) Owner-Client #2 is buying in.
- (5) Interest is applicable to the buy-in amount but, for this example, is not being calculated.

% of NET VENDOR CONTRIBUTION (A)	AMOUNT OF NET VENDOR CONTRIBUTION (B) (A * 1,000K)	BUY-IN BASE OWNER #2 (C) (1,000K - B)	BUY-IN PRINCIPAL OWNER #2 (D) (50% ° C)	BUY-IN RISK FEE OWNER #2 (E) (10% ° D)	BUY-IN MANAGEMENT FEE OWNER #2 (F) (10% * B)	TOTAL BILLED TO OWNER #2 (G) (D+E+F)	TOTAL PAID BY OWNER #1 (H) (C - G)
(1)							
0.00%	0.0	1,000.0	\$00,0	50.0	0.0	550.0	450.0
10.00%	100.0	9.00.0	450.0	45.0	10.0	\$05.0	395.0
20.00%	200.0	800.0	400.0	40.0	20.0	460.0	340.0
30.00%	300.0	700.0	350.0	35.0	30.0	415.0	285.0
40.00%	400.0	500.0	300.0	30.0	40.0	370.0	230.0
50.00%	500.0	500.0	250.0	25.0	50.0	325.0	175.0
60.00%	600.0	400,0	200.0	20.0	50.0	280.0	120.0
70.00%	700.0	300.0	150.0	15.0	70.0	235.0	65.0
·· 80.00%	800.0	200.0	100.0	10.0	80.0 ·	190.0	10.0
145 JU.00%	900.0	100.0	50,0	\$.0	90.0	145.0	(45.0)
100.00%	2,000,2	0.0	0.0	0.0	100.0	100.0	(100.0)

Revised per Board Resolution December 6, 1989

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<sup>(1)</sup> ONLY THE APPLICABLE PERCENTAGE WOULD BE PROVIDED BY OWNER #1.
THE ADDITIONAL PERCENTAGES ARE PROVIDED FOR EXAMPLE PURPOSE ONLY.

#### EXAMPLE (continued)

# METHODOLOGY FOR CALCULATING BUY-INs TO MULTI-CLIENT PROJECT ORIGINALLY ESTABLISHED AS A CLIENT-SPECIFIC PROJECT SUPPORTED BY NET VENDOR CONTRIBUTION (\$K)

#### **ASSUMPTIONS:**

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- (1) Annual Client-Specific Project Cost or FQP is \$1,000.0K for Owner-Client #1.
- (2) Owner-Client #1 provided Net Vendor Contribution Data.
- (3) Ali Owner-Client Allocation Factor Values are Equal.
- (4) Owner-Client #2 is a participant as a result of an earlier buy-in.
- (5) Owner-Client #3 is buying in within the first full calendar year of the project.
- (6) Net Vendor Contribution of \$400.0K.
- (7) Interest is applicable to the buy-in amount but, for this example, is not being calculated.

	Owner-Client #1 Establishes Client- Specific Project	Buys In	Client #2  — Multi- et Established	Owner-Client #3 Buys in At A Later Date Within 1st Calendar Year						
	0-C #1	0-C #1	O-C #2	O-C #1	O-C #2	O-C #3				
Original Amt Auth	1,000.0				-					
Net Vendor Contribution	400.0				•					
Buy-In Base	600.0	600.0		600.0						
1st BUY-IN ADJUSTMENT	•									
Principal/Backbilling		(300.0)	300.0							
Risk Fee		(30.0)	30.0							
Management Fee		(40.0)	40.0							
Net Impact After 1st Buy-In		230.0	370.0	230.0	370.0					
2nd BUY-IN ADJUSTMENT										
Principal/Backbilling				(100.0)	(100.0)	200.0				
Risk Fee				(10.0)	(10.0)	20.0				
Management Fee	•			0.0	(20.0)	20.0				
Net Impact After 2nd Buy-In				120.0	240.0	240.0				

Revised per Board Resolution December 6, 1989

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Appendix D

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Revised per Board Resolution October 4, 1989

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# REVENUE CREDITING PROCESS FOR COST SHARING REVENUES RECEIVED FROM

#### <u>ENTITIES OTHER THAN OWNER-CLIENTS AND THEIR AFFILIATE</u>

The following describes the Cost Sharing Revenue Crediting procedures approved by the Board as of the effective date of the Service Agreement. Revenues realized from the provision of Projects, services or Deliverables to any entity other than the Owner-Clients or their Affiliates are treated as payments for sharing in the benefits/costs of Projects, thereby reducing the costs to respective Owner-Clients.

Where a Project is based on fully loaded costs, or if a Client-Specific Project is based on Firm Quoted Price, a four step process is used.

- (1) After the recovery of any unique costs Bellcore incurs in connection with the consummation or implementation of an agreement of license with any entity other than Owner-Clients or their Affiliates, the portion of the cost-sharing revenue received from such entity which covers the portion of the Project's fully loaded costs allocated to the entity on the basis of size or usage, will be credited to the Owner-Clients funding the Projects, in proportion to each such funding Owner-Client's Project cost.
- (2) Fifty percent (50%) of the remaining portion of the cost-sharing revenue received will be credited in the same manner.
- (3) The remaining fifty percent (50%) will be credited equally to all Owner-Clients, whether or not they funded the Project, in recognition of the utilization of common assets, including human resources who possess the knowledge and expertise gained from Infrastructure Projects, reflected in the surcharge incurred by any entity other than the Owner-Client or their Affiliates participation in the Project.

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(4) Cost-sharing revenue from any entity other than Owner-Client or their Affiliates will be applied to the applicable Owner-Clients' cost each month.

Where a Multi-Client Project is based on Firm Quoted Price, anticipated revenue credits described in (1) and (2) above are a part of other pertinent data considered in determining the Firm Quoted Price. Therefore, as actual revenues from any entity other than Owner-Clients and their Affiliates are received for such a Project, these portions of auch revenues are applied to directly offset Bellcore's costs for the Project, and any difference between the Firm Quoted Price and the adjusted costs are reflected in Bellcore's net income. The remaining portion of any such revenue is credited to all Owner-Clients as discussed in (3) above.

Where a Client-Specific Project is supported by Net Vendor Contribution, the following illustrates the methodology to be utilized for the distribution of revenues realized from the provision of services or Deliverables of a Project to any entity other than Owner-Clients or their Affiliates.

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# REVENUE CREDITING DISTRIBUTION WHERE NET VENDOR CONTRIBUTION IS INVOLVED (Dollars in Millions)

## ASSUMPTIONS

 Client-Specific Project Cost
 = \$10.000

 Total Revenue from Non-Affiliate
 = \$1.420

 Size Related Cost (\$10.000 x 10%
 = 1.000

 Market Value/Mark-up (42% x 1.000)
 = \$.420

Based on Net Vendor Contribution of 70% \$.700 of the \$1.000 size portion is returned to the Owner-Clients and 70% of the mark-up portion or \$.294 is returned to the Owner-Clients.

#### SUMMARY

Revenue Source	FUNDER	+	OWNER	(x 6) =	TOTAL
Size Portion 70% of Size Portion Returned to all Owner-Clients	\$ .100		\$ .100	(\$ .600)	\$ .700
30% of Size Portion Returned to Funder	\$ .300		-		\$ .300
TOTAL	\$ .400		\$ .100	(\$ .500)	\$1.000
Mark-up Portion					
70% of Mark-up Returned to all Owner-Clients	\$ .042		\$ .042	(\$ .252)	\$ .294
Remaining 30% is split	\$ .063		_		\$ .063
50/50 between Funder and Owner-Clients	\$ .009		\$ .009	(\$ .054)	\$ .063
TOTAL	\$ .114		\$ .051	(\$ .306)	\$ .420
TOTAL REVENUE DISTRIB.	\$ .514		\$ .151 =====	(\$ .906)	\$1.420

Revised per Board Resolution December 6, 1989

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# REVENUE CREDITING DISTRIBUTION WHERE NET VENDOR CONTRIBUTION IS INVOLVED (Dollars in Millions)

## ASSUMPTIONS

 Client-Specific Project Cost
 = \$10.000

 Total Revenue from Non-Affiliate
 = \$1.420

 Size Related Cost (\$10.000 x 10%
 = 1.000

 Market Value/Mark-up (42% x 1.000)
 = \$.420

Based on Net Vendor Contribution of 70% \$.700 of the \$1.000 size portion is returned to the Owner-Clients and 70% of the mark-up portion or \$.294 is returned to the Owner-Clients.

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#### SUMMARY

Revenue Source	FUNDER	+	OWNER	(x 6) =	TOTAL
Size Portion 70% of Size Portion Returned to all Owner-Clients	\$ .100		\$ .100	(\$ .600)	\$ .700
30% of Size Portion Returned to Funder	\$ .300		<del>-</del>		\$ .300
TOTAL	\$ .400		\$ .100	(\$ .600)	\$1.000
Mark-up Portion					
70% of Mark-up Returned to all Owner-Clients	\$ .042		\$ .042	(\$ .252)	\$ .294
Remaining 30% is split	\$ .063		-		\$ .063
50/50 between Funder and Owner-Clients	\$ 009		\$ .009	(\$ .054)	\$ .063
TOTAL	\$ .114		\$ .051	(\$ .306)	\$ .420
TOTAL REVENUE DISTRIB.	\$ .514 =====		<b>\$</b> .151	(\$ .906)	\$1.420

Revised per Board Resolution December 6, 1989

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# NOTICES

For Ameritach Services, Inc.: Ms. J. F. Woods Vice President - Finance & Administration Ameritach Services, Inc. 1900 E. Golf Road, Floor 10 Schaumburg, IL 60173

. . <u>5.</u>

(708) 605-3637

For Bell Atlantic Network Services, Inc.: Mr. D. L. Myers Managing Director - Bellcore Administration Bell Atlantic Network Services, Inc. 1310 N. Court House Road, Floor 3 Arlington, VA 22201

(703) 974-8025

For BellSouth Services Incorporated: Mr. J. L. Wilson Director - Regulatory Affairs BellSouth Services, Inc. South E4E2, 3535 Colonnade Parkway Birmingham, AL 35243

(205) 977-1570

For NYNEX Service Company: Mr. T. E. O'Brien Director - Financial Assurance NYNEX Service Company 120 Bloomingdale Road, Room 443 White Plains, NY 10605

(914) 683-3458

Page 1 of 2

Revised October, 1989

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For Pacific Bell: Mr. M. E. King, Jr. Vice President - Planning Pacific Bell 2600 Camino Ramon, Room 3CN100 San Ramon, CA 94583

(415) 823-8565

For Southwestern Bell Telephone Company: S. Ms. B. J. Adkins
District Manager - Bellcore Administration
Southwestern Bell Telephone Company
1010 Pine Street, Room 2010
St. Louis, MO 63101

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For U S WEST Advanced Technologies, Inc.: Ms. N. T. Robinson
Technical Director - Belicore Alliance
US West Advanced Technologies, Inc.
6200 S. Quebec, Suite 430
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(303) 740-4492

For Bell Communications Research, Inc.: Mr. E. M. Bookrajian
Division Manager
Contract Administration & Billing
Bell Communications Research, Inc.
290 W. Mt. Pleasant Avenue
Room 3B141
Livingston, NJ 07039

(201) 740-3150

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Revised October, 1989

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The following resolutions were adopted by the Bellcore Board of Directors on January 6, 1988;

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RESOLVED: that, as required by the resolutions of this Board at its December 2, 1987 meeting, unanimous authorization be, and hereby is, given for the revised Service Agreement and the amended Shareholders' Agreement to become effective as of January 1, 1988; and

RESOLVED: that simultaneously with its acknowledgement and commencement of work on a project (or on a material change in an authorized project) subject to an Access Period, as defined in Article 6.8(a)(1) of the revised Service Agreement, the Corporation shall provide to all shareholder companies a generic description of such project, containing sufficient specificity for all shareholder companies to determine that the project is an Authorized Activity under the amended Shareholders' Agreement and that the project does not materially and adversely affect any company's rights as an owner of the Corporation; and

RESOLVED: that the ownership of all intellectual properties resulting from work product created or caused to be created by the Corporation shall reside with the Corporation; and the Corporation shall not grant exclusive licenses to any of its work; and

RESOLVED: that any disagreements with respect to whether the Corporation should perform a project subject to an Access Period, as defined in Article 6.8(a)(1) of the revised Service Agreement, or with respect to whether other shareholder companies shall be allowed to participate in such a project shall be submitted to and resolved by this Board, provided, that any such disagreement shall be submitted to the Corporation by any shareholder company within 90 days from the date such company has received a description of the affected project; and

RESOLVED: that the President and Chief Executive Officer by, and hereby is, authorized to prepare and deliver on behalf of the Corporation revised page(s) to the amended Shareholders' Agreement reflecting the 90 day provision described in the foregoing resolution; and

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ITEM NO. 1-820.2 RTTACHMENT : PAGE 100 UF 199

RESOLVED: that the Corporation shall not be authorized to act in any manner inconsistent with the foregoing series of five (5) resolutions unless, and only to the extent that, such resolutions are amended or repealed with the unanimous consent of all of the Directors of this Board.

These resolutions will be attached to the certified copies of the Service Agreement.

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## BELLCORE TEC AGREEMENT - TABLE OF CONTENTS

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Attachment A - Bellcore TEC 1988 Licensing Algorithms

Schedule I - Addresses for Notices and Demands

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#### BELLCORE TEC AGREEMENT

THIS AGREEMENT is entered into as of January 1, 1986, and amended as of January 1, 1988, among the following entities which are Bell Communications Research, Inc. (hereinafter referred to as "Bellcore") and Ameritech Services, Inc.; Bell Atlantic Network Services, Inc.; BellSouth Services Incorporated; NYNEX Service Company; Pacific Bell; US WEST Advanced Technologies, Inc., as agent for 15.

The Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company, and Pacific Northwest Bell Telephone Company; and Southwestern Bell Telephone Company (hereinafter collectively referred to as "Regional Companies" and individually as a "Regional Company");

WHEREAS, the Regional Companies and their affiliated Operating Telephone Companies (hereinafter referred to as the "OTCs") desire to obtain the education and training services of Bellcore through Bell Communications Research Technical Education Center (hereinafter referred to as "Bellcore TEC") and Bellcore desires to provide the services to the Regional Companies and their affiliated OTCs;

NOW, THEREFORE, in consideration of the terms and conditions contained herein, the parties to this Agreement hereby agree as follows:

#### Section 1. - Definitions

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- (a) "AGGREGATE FINANCIAL OBLIGATION" is the sum of tuition rates, excluding room and board, for committed BELLCORE TEC COURSE seats for a Regional Company, including its affiliated QTCs that corresults from the DEMAND SOLICITATION process.
- (b) "COUNCIL" is the governance council or councils, as determined by the Bellcore Board of Directors, which is comprised of an officer level representative from each Regional Company, as set forth in section 5.2 of the Service Agreement. Included in its responsibility overseeing the functions and activities of Bellcore TEC.

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- (c) "BELLCORE TEC COURSES" are training and educational programs, that are developed and/or delivered by or under the auspices of Bellcore TEC.
- (d) "COURSE RELATED MATERIALS" include books, course documents, course outlines, computer software, computer time and any other related miscellaneous materials.
- (e) "DEMAND SOLICITATION" is the process by which Bellcore TEC announces
  BELLCORE TEC COURSES being offered and pursuant to which each Regional
  Company commits to an AGGREGATE FINANCIAL OBLIGATION for the
  applicable FINANCIAL OBLIGATION PERIOD.
- (f) "ELECTIVE PROJECTS" are any Projects performed by Bellcore, as defined in Section 1.10(b) of the SERVICE AGREEMENT.
- (g) "FINANCIAL OBLIGATION PERIOD" refers to the specified period of time for which an AGGREGATE FINANCIAL OBLIGATION has been established.
- (h) "IPA" (INTELLECTUAL PROPERTY AGREEMENT) means the IPA among Bell Communications Research, Inc., Ameritech Services, Inc., Bell Atlantic Management Services, Inc., BellSouth Services Incorporated, NYNEX Service Company, Pacific Bell, Southwestern Bell Telephone Company, and Bell Tri-Co Services Company, (a partnership composed of The Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company, and Pacific Northwest Bell Telephone Company), effective as of January 1, 1984, as amended from time to time. The IPA applies to BELLCORE TEC COURSES which have been or with beader stated as Projects funded under the SERVICE AGREEMENT or its predecessor agreement, where the stated deliverable was or is the development of a BELLCORE TEC COURSE.
- (i) "NEW COURSES" are any BELLCORE TEC COURSES offered that are not included in the original DEMAND SOLICITATION listing.

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(j) "NEW COURSE DEMAND LETTER" is correspondence sent to the Regional Companies and their affiliated OTCs requesting a forecast of seats for specific courses.

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- (k) "SERVICE AGREEMENT" means the Service Agreement among Bell Communications
  Research, Inc., Ameritech Services, Inc., Bell Atlantic Network Services, Inc., BellSouth
  Services Incorporated, NYNEX Service Company, Pacific Bell, US WEST Advanced
  Technologies, Inc., as agent for The Mountain States Telephone and Telegraph
  Company, Northwestern Bell Telephone Company and Pacific Northwest Bell Telephone
  Company, and Southwestern Bell Telephone Company, effective as of January 1, 1988,
  as amended from time to time.
- (1) "SHAREHOLDERS' AGREEMENT" means the Shareholders' Agreement among Bell Communications Research, Inc., Ameritech Services, Inc., Bell Atlantic Network Services, Inc. BellSouth Services Incorporated, NYNEX Service Company, Pacific Bell, The Mountain States Telephone and Telegraph Company, Northwestern Bell Telephone Company, Pacific Northwest Bell Telephone Company and Southwestern Bell Telephone Company, dated as of October 2, 1984, amended as of January 1, 1988 and as further amended from time to time.
- (m) "SPECIAL COURSES" are BELLCORE TEC COURSES which are provided by Bellcore TEC or its contractors which have unique cost considerations associated with them.
- (n) "STAND-BY SEATS" are course seats which are requested after a BELLCORE TEC COURSE is filled to capacity.
- (o) "SUPPLEMENTAL STUDENT WEEKS" are STUDENT WEEKS (a measurement used by Bellcore TEC equal to one course seat for one week) which result from (1) a NEW COURSE solicitation announcement (2) the addition of a BELLCORE TEC COURSE to the course schedule.
- (p) "TIER PRICE" means a price charged for a BELLCORE TEC COURSE. A TIER

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PRICE includes (1) the cost of delivering a BELLCORE TEC COURSE, (which varies according to instructor cost, laboratory expenses, licensing fees and COURSEcc. RELATED MATERIALS cost, (2) a portion of the total annual course development: program, plus (3) weekly room and board as appropriate. Rates will be determined as defined in Section 6.1 of this Agreement.

#### Section 2. - Scope of Agreement

This Agreement applies to course delivery, course development and the provision of materials and services to the Regional Companies and their affiliated OTCs, as well as associated tuition rates, cost recovery considerations, ownership rights to BELLCORE TEC COURSES, rights to use COURSE RELATED MATERIALS and rights to attend BELLCORE TEC COURSES which have been, are presently being or will be developed and/or delivered by Bellcore TEC.

#### Section 3. - Term of Agreement

This Agreement shall commence January 1, 1986, and shall remain in force until at least three Regional Companies have given written notice of withdrawal and withdrawal is effective, as set forth in Section 8 of this Agreement.

#### Section 4. - Development and Delivery Terms and Conditions

Belicore, through Belicore TEC, agrees to develop and/or deliver BELLCORE TEC COURSES and to license to the Regional Companies and their affiliated OTCs, certain information, services or materials relating to such BELLCORE TEC COURSES.

#### 4.1 Description of Bellcore TEC Services

(a) Based upon the needs of the Regional Companies as expressed through the council and forum process and the DEMAND SOLICITATION process, Bellcore TEC will deliver

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BELLCORE TEC COURSES to the Regional Companies and their affiliated OTCs at its facility in Lisle, Illinois or at any other location as determined by Bellcore TEC administration. Bellcore TEC will provide the instruction, space, COURSE RELATED MATERIALS, and room and board, as appropriate, for each BELLCORE TEC COURSE.

(b) Based upon the needs of the Regional Companies as expressed through the council and forum process, Bellcore TEC will develop NEW COURSES and maintain and update existing BELLCORE TEC COURSES for the Regional Companies and their affiliated OTCs as determined by Bellcore TEC administration Bellcore TEC will also determine the overall nature of the Bellcore TEC curricula with the for BELLCORE TEC COURSES in accordance with advisory assistance of various forums and with the concurrence of the COUNCIL.

#### 4.2 Participation in Courses

(a) Bellcore TEC shall solicit and allocate seats for BELLCORE TEC COURSES in accordance with the published schedule for each FINANCIAL OBLIGATION PERIOD. Regional Companies and their affiliated OTCs will confirm, with financial obligation, allocated seats for specific BELLCORE TEC COURSE session dates. The TIER PRICES for all seats which are confirmed by a Regional Company or its affiliated OTC(s) and allocated by Bellcore TEC to that Regional Company or its affiliated OTC(s) will be translated into an AGGREGATE FINANCIAL OBLIGATION for that Regional Company for that FINANCIAL OBLIGATION PERIOD. Bellcore TEC will provide the capability to the Regional Companies to obtain reports which will enable each Regional Company to determine its AGGREGATE FINANCIAL OBLIGATION status. Each Regional Company shall compensate Bellcore TEC in an amount not less than the AGGREGATE FINANCIAL OBLIGATION in accordance with the provisions of Sections 6 and 7.

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Bellcore TEC shall publicize the schedule for the DEMAND SOLICITATION process to the Regional Companies. The schedule shall include the date(s) on which the list of BELLCORE TEC COURSES will be distributed, the date(s) TIER PRICES will be available (which will be a reasonable time period prior to the date the AGGREGATE FINANCIAL OBLIGATION will be established), and the date(s) after which time the AGGREGATE FINANCIAL OBLIGATIONS will be final.

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- (ii) At any time prior to the start date of a BELLCORE TEC COURSE session a Regional Company or its affiliated OTC may increase the number of its personnel attending one or more BELLCORE TEC COURSE sessions, including new sessions for existing BELLCORE TEC COURSES. Tuition paid for the increased number of BELLCORE TEC COURSE seats shall be credited to the AGGREGATE FINANCIAL OBLIGATION if the BELLCORE TEC COURSE was available for selection at the time of the DEMAND SOLICITATION for that FINANCIAL OBLIGATION PERIOD.
- (iii) Not less than six (6) weeks prior to the start date of a BELLCORE TEC COURSE session, a Regional Company or its affiliated OTCs may cancel one or more seats in any BELLCORE TEC COURSE session. Such a cancellation, however, will in no way decrease the AGGREGATE FINANCIAL OBLIGATION. The financial obligation with respect to the cancelled seats may nevertheless be satisfied in whole or part by increasing the commitment for seats in other BELLCORE TEC COURSES as provided for and allowed by Section 4.2(a) (ii) hereinabove.
- (iv) Within six weeks or less before the start date of a BELLCORE TEC COURSE session, a Regional Company or its affiliated OTC(s) may cancel one or more seats in any BELLCORE TEC COURSE and Belicore TEC shall endeavor to fill such seat(s). If Belicore TEC is unable to fill that specific cancelled seat(s) with

another student(s) prior to the start date of the BELLCORE TEC COURSE session, the Regional Company will be charged for that BELLCORE TEC COURSE seat(s) minus an allowance for room and board, as applicable. If Bellcore TEC is able to fill that specific cancelled seat(s) with another student(s), the AGGREGATE FINANCIAL OBLIGATION shall not be decreased but the financial obligation with respect to that cancelled seat may nevertheless be satisfied in whole or in part by increasing the commitment for seats in other BELLCORE TEC COURSES as provided for and allowed by Section 4.2(a) (ii) hereinabove.

- (v) If, at any time prior to the delivery of a scheduled BELLCORE TEC COURSE, Belicore TEC cancels a session, changes the dates of a session, increases the length of a session or increases the costs of a session, except as noted in Section 4.2(c), the Regional Company or its OTC may (1) move the seat to another session of the same BELLCORE TEC COURSE, if in the same AGGREGATE FINANCIAL OBLIGATION PERIOD, (2) move the seat to another BELLCORE TEC COURSE contained in the DEMAND SOLICITATION list for that FINANCIAL OBLIGATION PERIOD, or (3) cancel the seat and reduce the AGGREGATE FINANCIAL OBLIGATION for that Regional Company or its affiliated OTCs.
- (vi) Bellcore TEC may at any time prior to delivery of a scheduled BELLCORE TEC

  COURSE reduce the TIER PRICE. Such a change will be reflected in the

  AGGREGATE FINANCIAL OBLIGATION.
- (vii) From time to time, NEW COURSES may be added to the course delivery schedule. Regional Companies or their affiliated OTCs which register for these NEW COURSES and associated sessions will be charged tuition at the prevailing TIER PRICE. These resulting SUPPLEMENTAL STUDENT WEEKS and charges are not included in, and will in no way increase nor be applied towards, the original AGGREGATE FINANCIAL OBLIGATION for the current

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FINANCIAL OBLIGATION PERIOD. Unless Bellcore TEC is notified of a seat cancellation at least six (6) weeks prior to the start date of the NEW COURSE session (except for the initial session of a NEW COURSE) the Regional Company will be charged for that seat as specified above. There is no charge for cancellation of a NEW COURSE seat prior to six weeks before the start date of the NEW COURSE. For the initial session of a NEW COURSE, the commitment will be as set forth in the NEW COURSE DEMAND LETTER.

- (b) In order to stimulate early commitment, starting January 1, 1987, a reduction of the delivery component of the TIER PRICES established and publicized for that DEMAND SOLICITATION period will be applied as appropriate to the specific BELLCORE TEC COURSE seats financially committed to by a Regional Company and its affiliated OTCs during that DEMAND SOLICITATION period and subsequently billed. This discount and its applications are to be reviewed at least annually by the COUNCIL, with input from Bellcore TEC administration.
  - (i) The discount shall not apply where Regional Companies or their affiliated OTCs change BELLCORE TEC COURSES after the DEMAND SOLICITATION period; however, the discount shall apply to changes between sessions of the same BELLCORE TEC COURSE in the same FINANCIAL OBLIGATION PERIOD.
  - (ii) With respect to discounted seats, where Bellcore TEC cancels a session, changes the dates of a session, increases the length of a session or increases the cost of a session except as noted in Section 4.2(c), the Regional Company or its affiliated OTC may:
    - (1) move the discounted seat to another session of the same BELLCORE TEC COURSE in the same FINANCIAL OBLIGATION PERIOD.
    - (2) move the discounted seat to another BELLCORE TEC COURSE contained

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in the DEMAND SOLICITATION list for that FINANCIAL OBLIGATION PERIOD, or

- (3) cancel the seat and reduce the AGGREGATE FINANCIAL OBLIGATION for that Regional Company.
- (iii) The discount shall also apply to an unmet demand by a Regional Company or its affiliated OTC for a BELLCORE TEC COURSE seat submitted during the DEMAND SOLICITATION period which results in STAND-BY SEATS. If the unmet demand of a Regional Company or its affiliated OTC is subsequently met, the AGGREGATE FINANCIAL OBLIGATION of that Regional Company or its affiliated OTC is increased accordingly.
- (iv) The discount shall not apply to BELLCORE TEC COURSE seats which are added after the DEMAND SOLICITATION period, except as set forth in Section 4.2(b) (iii) above.
- (c) As authorized by the COUNCIL Bellcore TEC may increase or decrease BELLCORE TEC COURSE TIER PRICES (and consequently AGGREGATE FINANCIAL OBLIGATION dollars) up to a maximum of five percent (5%) during any current FINANCIAL OBLIGATION PERIOD and up to a maximum of ten percent (10%), in the subsequent FINANCIAL OBLIGATION PERIOD.
- (d) In the event costs for a particular BELLCORE TEC COURSE increase or decrease prior to its delivery, Bellcore TEC may also increase or decrease the tuition rate for any BELLCORE TEC COURSE by moving a BELLCORE TEC COURSE to a higher or lower TIER PRICE with a concurrent adjustment to the AGGREGATE FINANCIAL OBLIGATION. In the event of an increase in the tuition rate, a Regional Company may cancel the affected BELLCORE TEC COURSE seats and reduce their AGGREGATE FINANCIAL OBLIGATION by the amount of the original TIER PRICE.

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(e) Since the products of a non-Bellcore TEC Project funded under the SERVICE AGREEMENT may be obtained through training on that subject, where a BELLCORE TEC COURSE offered by Bellcore TEC originates from a Bellcore ELECTIVE PROJECT, a Regional Company which did not fund such ELECTIVE PROJECT will not be permitted to participate in the BELLCORE TEC COURSE unless the Regional Company buys into the Project provided for in the SHAREHOLDERS' AGREEMENT and the SERVICE AGREEMENT.

# Section 5. - Ownership of and Rights to Bellcore TEC Courses

- (a) Belicore shall own all BELLCORE TEC COURSES developed or acquired by Belicore TEC. No Regional Company or OTC shall have the right to the use of any COURSE RELATED MATERIALS, except as specified below except in connection with attendance at BELLCORE TEC COURSES.
- (b) The foregoing notwithstanding, the IPA shall govern the right to use BELLCORE TEC COURSES which have been or will be developed as Projects funded under the SERVICE AGREEMENT or its predecessor agreement, where the stated deliverable was or is the development of the BELLCORE TEC COURSE. In such cases, COURSE RELATED MATERIALS shall be provided to Regional Companies which were or are funding such Projects or their affiliated OTCs upon request, at the cost of provision by Bellcore TEC, provided that, as to BELLCORE TEC COURSES developed prior to January 1, 1986, the COURSE RELATED MATERIALS to be furnished shall be only such materials as they existed on January 1, 1986, and to the extent they are still available.
- (c) Bellcore TEC may designate as available for licensing to the Regional Companies and their affiliated OTCs those BELLCORE TEC COURSES which were developed or maintained after January 1, 1986. The terms of licensing for those designated

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- BELLCORE TEC COURSES shall be based upon procedures established by the COUNCIL.
- (d) The participation in a BELLCORE TEC COURSE, the payment of tuition, the acquisition of COURSE RELATED MATERIALS, the payment of any underrecovery or receipt of an overrecovery of funds does not entitle a Regional Company or OTC to any ownership or licensing rights to such BELLCORE TEC COURSES under the IPA or otherwise.

#### Section 6. - Billing and Payment

#### 6.1 Tier Prices

- (a) Bellcore will determine the cost components for each BELLCORE TEC COURSE. A cost for development of BELLCORE TEC COURSES and a cost for maintenance of existing BELLCORE TEC COURSES will be added to the delivery costs and room and board costs to determine the TIER PRICE to be charged to the Regional Companies for a particular BELLCORE TEC COURSE committed to or attended. The funds obtained from the development cost component will contribute to the overall development and/or maintenance of BELLCORE TEC COURSES as administered by Bellcore TEC. The development cost component shall not contain any development costs previously charged to and paid for by Regional Companies in the funding of a pre-1986 project.
- (b) Bellcore TEC shall advise the Regional Companies of the tuition rate for those SPECIAL COURSES which are not priced under the TIER PRICE system in the DEMAND SOLICITATION schedule.

#### 6.2 Licensing Charges

Bellcore will determine the cost components and charges for designated COURSE RELATED

MATERIALS which may be licensed to a Regional Company or OTC. The pricing algorithm(s) for the

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licensing charge shall include a component consisting of compensation for the development program at Bellcore TEC. The pricing algorithm(s) for 1986, as set forth in Attachment A, have been approved by the COUNCIL. The algorithms shall be reviewed at least annually by Bellcore TEC and the COUNCIL and updated and distributed to all parties as appropriate.

#### 6.3 Payment for Courses and Licensing Charges

Regional Companies will be billed monthly. Such billing will be based on the number of seats in each course for which the Regional Company and any of its affiliated OTCs attended or was financially obligated but has not attended. Such billing may also include licensing charges identified in Section 6.2. Regional Companies agree to pay Bellcore the charges indicated on each bill within thirty (30) days after receipt of each bill.

## 6.4 Aggregate Financial Obligation Billing Adjustment

At calendar year end, a billing adjustment will be made based upon the AGGREGATE FINANCIAL OBLIGATION for each FINANCIAL OBLIGATION PERIOD during that year and the relevant amounts billed to each Regional Company. A bill will be rendered to each Regional Company in accordance with the procedures set forth in Section 6.3 for the difference no later than March 31 of the following year.

# Section 7. - Underrecovery and Overrecovery of Funds

- (a) Not later than November 30 of each year, Bellcore shall review the current year's actual Bellcore TEC costs incurred and revenues pursuant to this Agreement. Bellcore shall determine if a variance exists and shall act in accordance with the provisions of this section.
- (b) In the event the Bellcore TEC revenues paid pursuant to this Agreement (which includes all revenues received by Bellcore TEC, except for revenues attributed to ELECTIVE

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PROJECTS funded under the SERVICE AGREEMENT) do not provide enough funding to meet Bellcore TEC costs incurred pursuant to this Agreement (which include all costs of Bellcore TEC, excluding costs attributable to ELECTIVE PROJECTS funded under the SERVICE AGREEMENT), the participants to this Agreement will share the funding of the underrecovery of those costs on an equal (1/n) basis regardless of usage and other costs committed and paid for by each participating Regional Company. This will be billed to each participating Regional Company in the December billing cycle.

- (c) Notwithstanding Sections 7(a) and 7(b) above, during the first quarter, Belicore shall make a final adjustment of billing residuals from the previous year based upon the previous year's total actual Belicore TEC costs incurred and revenues and amounts billed to each Regional Company as set forth in Section 7.5 of the SERVICE AGREEMENT.
- (d) In the event the Bellcore TEC revenues provide excess funds after meeting Bellcore TEC costs, the COUNCIL will recommend the manner of disposition, annually, of those excess funds to the Board of Directors. Upon notification of the decision of the Board of Directors, Bellcore will implement the chosen course of action regarding those funds.

Section 8. - Withdrawal of Participation

A Regional Company may withdraw from the Bellcore TEC Agreement at the end of any calendar year by giving Bellcore thirty (30) months prior written notice of its intent to withdraw. During the notice period but prior to actual withdrawal, a Regional Company which has given such notice shall be liable for any and all charges in accordance with this Agreement plus any pro rata share of underrecovery as described in Section 7.

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#### 8.1 Conditions Upon Withdrawal

- (a) A Regional Company which has given thirty (30) months written notice prior to actual withdrawal and has withdrawn from this Agreement and which desires to attend BELLCORE TEC COURSES will, after the time of actual withdrawal, be charged the prevailing rate for participants in this Agreement plus a surcharge rate to be determined by the COUNCIL.
- (b) A Regional Company which has withdrawn from this Agreement, and its OTCs, will not be granted the privileges of a participant in this Agreement for purposes of registration. seat allocation, availability of courses and licensing. The specific treatment of a Regional Company which has withdrawn from this Agreement shall be determined by Bellcore TEC and the COUNCIL.
- (c) (i) Regional Companies may renew participation in this Agreement in the manner contemplated by Section 3.7 of the SHAREHOLDERS' AGREEMENT for "Buy-In" to an ELECTIVE PROJECT, upon written notice to Bellcore of its intent to do so. The following example illustrates such a "Buy-In":

# **EXAMPLE:**

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In 1990, Region A, having previously withdrawn from participation at the end of 1988, decides to renew participation in this Agreement, effective 1/1/91. Bellcore TEC has underrecovery in 1989 with Regions B, C, D, and F as current participants in this Agreement. Underrecovery costs for 1989 were \$75K and \$0 in 1990; development/maintenance expenses for 1989 and 1990 were \$13,000K and \$14,000K respectively; and average annual Short Term Treasury Bill interest rates during those years were 10% and 9% respectively.

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In calculating the subsequent participation price, the following calculations would be made given the ASSUMPTIONS:

- (1) Total annual underrecovery costs, as well as total annual development/maintenance expenses, will be divided equally into 1/n amounts among the participating Regional Companies and the Regional Company renewing participation, each amount due by the end of the first month of each subsequent year's 1st quarter.
- (2) Interest is compounded annually, beginning the first day the Regional Company is a non-participant (i.e., 1/1/year not a participant).
- (3) Risk fee is 10% pursuant to Section 3.7 of the SHAREHOLDERS' AGREEMENT.

	1989	1990	1/1/91 PRESENT WORTH
AVERAGE ANNUAL			
INTEREST RATE	10%	9%	
ALLOCATED YEARLY UNDERRECOVERY COST AND DEV./MTC. EXP.	VALUE A	FEND OF YEAR	
\$2,615.0K* (1989)	\$2,876.5K	\$3,135.4K	\$3,135.4K
\$2,800.0K** (1990)	-	\$3,052.0K	\$3,052.0K
\$5,415.0K - Total Allocated Under- recovery and Dev./Mtc.	ALLOCA	T WORTH OF TOTAL ATED COSTS	\$6,187.4K
Expense	\$5,415.01		+ \$541.5K
and the second of the second	PARTIC	\$6,728.9K	
$\frac{$13,075K}{5} = $2,615 (1989)$	\$14,0001	<u>&lt; - \$2,800 (1990)</u>	

(ii) Any revenues realized from such subsequent participation by the renewing Regional Company shall be credited on a proportionate basis (1/n) to the Regional Companies currently participating in this Agreement at the time of such renewed participation.

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to change its designated address, it may do so by written notification to all of the other parties. Any such notice shall be deemed delivered when postmarked.

#### 9.4 Severability

If any provision or portion of a provision of this Agreement shall be held invalid or unenforceable, the remainder of this Agreement shall not be affected thereby and the remaining terms shall continue in effect and be binding on the parties, provided, that such holding of invalidity or unenforceability does not materially affect the essence of the Agreement. If any party is prevented from performing any of the provisions of this Agreement by any governmental order, judicial decree, regulation, Force Majeure Condition, as defined in Section 8.8 of the SERVICE AGREEMENT (except for failure to perform caused by a labor strike, which failure shall be reviewed by the COUNCIL and obligations determined by the COUNCIL), or statute, it will be relieved of its obligation to perform that provision which it is prevented from performing, and the remaining terms shall continue in effect and be binding on the parties provided that any such change does not materially affect the essence of this Agreement.

#### 9.5 Assignment

- (a) A Regional Company shall not have the right to assign, transfer or sell any rights acquired under this Agreement, or to delegate its obligations hereunder, without the prior written consent of Bellcore, except as provided in sub-paragraph (b) hereof. Bellcore may not assign its rights and/or delegate its obligations to perform under this Agreement without the prior written consent of all participating Regional Companies.
- (b) Without Bellcore's consent, each Regional Company may assign its rights under this Agreement to any of its Related Entities, as that term is defined in Section 1.5 of the SHAREHOLDERS' AGREEMENT. The Regional Company shall notify Bellcore in writing in a timely manner of such assignment and such assignment shall only be effective upon the assumption of the assignor's obligations hereunder by the assignee.

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Upon effectiveness, the assignee under any such assignment shall assume all of the rights and obligations of the assigning party.

#### 9.6 Executed in Counterparts

This Agreement may be executed in any number of counterparts, each of which shall be an original; but such counterparts shall together constitute but one and the same instrument.

#### 9.7 Headings

The headings in this Agreement are for convenience only and shall not be construed to define or limit any of the terms herein or affect the meaning or interpretation of this Agreement.

#### 9.8 Governing Law

This Agreement is to be governed by and interpreted under the laws of the State of New Jersey.

#### 9.9 Controlling Agreement

- (a) In the event that and to the extent that the provisions of the SHAREHOLDERS'

  AGREEMENT conflict with the terms of this Agreement, the provisions of the

  SHAREHOLDERS' AGREEMENT shall control.
- (b) In the event that and to the extent that the provisions of the SERVICE AGREEMENT conflict with the terms of this Agreement, the provisions of this Agreement shall control.
- To the extent not contradicted by express provisions herein and recognizing that the word "Project," as used in the Service Agreement, should be read as "development, delivery and licensing of BELLCORE TEC COURSES," the words "Owner-Client," as used in the Service Agreement, should be read as "Regional Company" and the words "SERVICE AGREEMENT," as used therein, should be read as "Bellcore TEC

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UARY	515,638.42		66,608,525.28	605,549.00	0.00		71,936,509.54 ; 70,246,944.57		,030,806.29			328,238,843.08
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i	210,099.06	172,251,379.16	68,287,236.66	982,143.00	1,425.00 5,774.00	90,704.73 88,685.82	70,050,235.43		1,519,247.04	147.70		327,609,475,83
UST Ferber	710,680.36 483,565.30	164,933,881.95 159,601,805.32	70,120,178.47 72,877,309.64	992,024.00	5,774.00	85,905.02	53,520,537.82	14,220,725.57 17,753,651.81	590,801.43 978,640.01	142.20		321,179,746.34 306,360,217.54
DEER	487,574.29	158,767,631.20		1,071,399.00	5,774.00	85,770.79	61,944,755.65	19,219,624.94	934,128.59		(4,828,4)	310,576,677.74
MEER	480,637.27	155,653,001.22	69,989,897.93	2,573,225.00	5,774.00	84,398.41	57,574,912.81	19,474,178.24	932,180.65		2,444.73	311,776,650.26
HEER	956,102.68	161,357,059.19	69,246,829.28	1,378,774.00	5,774.00	82,352.40	64,067,417.15	19,448,837.23	1,788,011.54			317,839,151.49
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CII	24,759.05	11,021,768.58	3,617,999.69			5,774.16	4,327,614.75	875,250.BI	33,315.17			19,906,482.35
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Y	12,728.55	9,667,354.96	4,390,154.92			5,408.57	4,503,497.27	837,544.89 914,036.88	88,425.37			19,581,167.13
UST	12,571.71	9,435,639.76	4,635,866.59			5,455.51	4,629,683.16	949,177.10	35,770.81			19,691,814.72
TEMBER	31,643.59	10,291,412.32	4,994,045.02			5,770.32 5,429.50	3,667,592.49 4,561,807.23	1,215,590.02	20,759.35	.6		20,267,037.11
IDEER Zenber	28,929.85 29,576.31	8,470,742.71 9,445,062.73	5,049,297.09 4,599,071.24			5,331.01	4,111,828.85	1,415,393.83	55,414,42 57,362,35		(329.52) 150.65	19,585,626.41 13,529,071.55
CHBER	67,051.69	11,090,855.59	5,183,098.33			5,996.0\$	4,600,977,58	1,457,772.91	96,227.17		107.05	27,691,465.43
BTR	530C (FG)	\$300 CF02	\$30C CF03	5300 00039	530C CP09902	SSIC CFO4	6390 CP63					
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	机体	739C CF63	SOUC CEOL TO TOTAL	B360 CFDI TOTAL	1010 2003 J0101	TOTAL 10TAL
HINRY	550,463.18	184,816,658.36	71,828,903,04	305,949.00	3,450.00	104,435,12		17,683,750,64	1,285,340.50			318,438,977.53
reuary RCH	550,463.18 438,892.76	187,119,939.53	70,824,196,11 62,345,294.58	605,919.00 370,136.00	0.00 9,77€.00	102,968.15		12,915,220.97	1,420,685.10	0.0		350,029,712.09
RiL	15,1381,18	192,053,692.45	62,095,715.35	673,645.00	1,425.00	100,076.21	74,539,239.74	15,087,545.04				350,300,815.57
7	14.130,169	196,822,411.47	59,228,730.14	747,583.00	1,425.00	98,555,74	74,594,728.27	15,059,090,63				345,509,249.31 349,192,440.23
ΝE	223,303.65	186,731,126,00	70,193,970.82	958,938.00	1,425.00	100,005.95		15,090,243,08				349,156,935.21
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PTEMBER	515,209.49	169,895,217.54	77,871,354.66		5,774.00	92,671.39	57,188,190.31	15,150,903,75 18,970,251.83				340,874,551.05 325,628,049.65
TOBER	516,604.14	166,738,373.91	73,613,671.79	1,071,399.00	5,774.09	\$1,200.39	66,506,562.88	20,635,018,77				320,626,013.63
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LENDER	1,023,153.77	172,447,925.78	(7,735,765.67	1,310,117.00	3,777.00			20,961,105,16	1,378,339.29	0.0	0.00	340,530,646.91
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SOUNCE M P2707

JANGARY FERRUARY MARCH FIRAL MAY JUNE JULY AUSUST SEPTEMBER OCTOSER NOJEMSER GECEMBER	0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.73 0.16 0.15 0.15 0.54 0.54 0.54 0.54 0.54	0.24 0.05 0.05 0.05 0.17 0.17 0.17 0.17 0.17 0.17 0.17	0.18 0.64 8.04 0.04 0.13 0.13 0.13 0.13 0.13 0.13	0.16 0.03 0.03 0.03 0.10 0.10 0.10 0.10 0.10	0.06 0.01 0.01 0.03 0.03 0.03 0.03 0.03 0.03	0.05 0.01 0.01 0.03 0.03 0.03 0.03 0.03 0.02 0.05 0.05	195,520,18 194,490,28 193,360,50 192,750,01 192,750,01 200,692,00 200,692,00 200,692,00 200,692,00 200,692,00 200,692,00 200,692,00 200,692,00 200,692,00	0.30 0.00 0.00 0.00 0.00 0.00 0.00 0.50 0.00 0.00 0.00 0.00	NUH-REG 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	NON-REG 46,383.00 46,383.00 2,574.00 2,574.00 2,574.00 2,574.00 2,574.00 2,574.00 2,574.00 2,574.00 2,574.00 2,574.00 2,574.00	0.00 11 0.00 12 0.00 12 0.00 12 0.00 15 0.00 15 0.00 17 0.00 17	MON-REQ ,627,729.09 1 ,643,736.73 ,035,658.24 ,592,705.50 ,662,451.49 ,481,640.73 ,613,538.18 ,131,414.50 ,171,718,388.90 ,953,232.81 7,996,655.11 2,693,063.45	MOK-REG 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0,00,0 00.0 00.0 00.0	NOH-REC 1,021,464.59 1,024,911.29 997,441.26 1,133,242.70 1,145,777.81 1,456,274.34 1,494,653.52 1,452,314.72 1,636,243.21 1,635,434.77 1,633,396.EE 1,742,075.84	MON-REG 1,598.61 1,570.79 1,582.65 1,753.90 1,729.15 2,064.68 2,005.56 2,024.41 2,097.48 2,131.87 2,097.49 2,097.49	0.00 0.00 0.00 0.00 0.05 0.00 0.00 0.00	235,708.41 269,598.26 307,901.89 316,551.92 400,650.02 219,976.89 246,271.97 189,887.26 565,924.66 563,843.73	373,423.25 287,506.88 340,522.55 323,558.50 318,558.20 323,119.85 113,351.68	204,680.73 204,703.17 206,890.63 199,130.52 203,868.47 218,235.75 219,170.61 218,668.67 219,399.23	NOH-REG	NON-REG 13, 472,597.21 13, 487,345.01 13, 111,619.01 14,748,054.52 14,826,124.88 18,064.549.91 18,060,666.06 10,572,086.11 19,662,153.74 20,699,211.65 20,747,675.54 21,866,347.98	
MONTH  JANUARY FERRURY MARCH APPIL MAY JUNE JULY AUSUST SEPTEMBER OCTORER NOVEMBER	377C/CPG1 TUTAL 425, 729.44 459, 437.46 473, 629.90 526, 933.52 533, 830.13 526, 895.74 536, 895.74 530, 639.69 533, 161.87 534, 767.74 521, 854.65 525, 503.08	1014L 12,619,525,23 12,639,031,95 12,659,185,64 12,752,012,72 12,511,043,21 12,376,335,50 12,634,312,70 12,444,320,05 12,449,661,73 12,447,189,55 12,17,361,44	377C/VP02/S2 370T/L 4,207,944.67 3 4,224,946.33 4,222,509.46 4,227,109.65 4,171,801.45 5 4,127,004.60 4,156,216.74 4,151,336.33 4,163,840.00 1,173,910.62 4,203,091.88	TOTAL 1,302,085.67 2 1,224,252.59 2 1,298,552.21 2 1,394,159.10 2 8,463,994.91 3 8,422,007.61 3 9,549,511.03 5 8,524,339.28 3 9,576,751.58 3 8,612,087.40 3 8,627,543.21	,909,003.24 1, ,936,038.30 1, ,981,096.07 1, ,125,223.72 1, ,087,427.90 1, ,194,428.34 1, ,194,428.34 1, ,227,036.91 1, ,259,917.82 1, ,3272,862.45 1,	1078L 130,930.05 074,750.63 089,517.19 101,385.81 154,634.73 180,709.48 179,112.93 192,250.32 204,028.93 209,180.86	3776/CP02/%6 T0TAL 1,020,354.04 969,667.51 992,012.51 992,012.51 993,689.43 1,041,741.00 1,023,140.72 1,064,809.71 1,065,973.55 1,075,678.65 1,086,305.65 1,080,953.86	101AL 200,551 /1 551, 195,521 /0 554 154 4,51 20 554 159 20 554 192,252 01 566 200,622,00 577 200,623 00 582 00 58	77C/CPD4/92 3 T019L 1,909,611,29 23 1,918,916,115 23 1,918,916,115 23 1,673,939,199 23 1,673,939,191 23 1,673,939,161 24 1,939,654,482 23 1,939,655,399,66 1,945,906,765 24 1,194,655,53 24 1,194,655,53 24 1,194,655,53 24 1,194,655,53 24 1,194,655,53 24 1,194,655,53 24 1,195,265,13 25	TOTAL 2, 054, 476, 03 2,325, 458, 10 2,325, 458, 10 3, 961, 917, 32 6, 458, 509, 30 6, 015, 003, 15 0, 701, 823, 67 1, 911, 540, 34 4,324, 216, 30 6, 806, 355, 29 7, 403, 124, 28	TOTAL 46,383,00 46,383,00 45,383,00 2,574,00 2,574,00 2,574,00 2,574,00 2,574,00 2,574,00 2,574,00 2,574,00 2,574,00 2,574,00	7776/6784/85 3 7976L 7,067,219.71 11 7,063,442.91 11 7,043,694.28 11 7,043,694.28 12 6,823,963.26 12 6,823,963.26 12 6,827,749.57 15 6,827,749.57 15 6,827,749.57 15 7,055,076.36 17 7,079,843.38 17 7,115,881.29 18	TOTAL 1,627,290.09 1,543,230.33 1,035,669.24 1,532,205.50 1,652,451.49 1,641,540.79 1,641,540.79 1,417,50 1,178,968.90 7,953,232.81 7,996,655.11	89,796,34 89,992,36 89,996,47 90,931,79 90,038,47 91,419,25 90,285,97 90,645,16 90,918,18 91,138,09	FOTAL 1,717,595.85 1,732,212.62 1,742,654.71 1,945,551.42 1,945,775.90 1,945,775.90 1,945,775.90 1,945,966.47 1,947,259.82 1,941,164.02 1,856,602.45	377C/CPDS TOTAL 71,737,041.11 72,146,635.39 73,054,547.12 73,025,556.97 74,532,147.46 78,322,147.46 78,125,236.57 77,143,257.25 79,913,211.87 80,105,432.62 82,655,577.30	117,612,39 115,932,20 114,252,02 112,571,84 110,891,6E 109,211,4B 107,521,30 105,891,42 104,170,95 102,450,7E	6676/06P04 3 10TAL 4,227,893.07 16 4,226,653.92 19 4,226,653.92 20 4,226,653.92 21 4,226,653.92 11 4,225,685.31 27 4,225,685.3	,534,295,89 25,677,453,31 27,055,673,14 24,737,490,08 16,515,630,32 11,056,269,07 18,565,471,02 18,562,872,34 5,522,236,54	TOTAL 1,529,223,57 3,916,718,21 1,671,109,63 1,922,519,26 1,715,894,80 1,256,846,81 1,565,910,75 1,665,570,11 5,275,931,57 5,665,774,41 5,014,767,01	3 FOTAL 0.00 0.00 0.00 254,720.37 224,749.39 267,500.90 255,242.75 263,659.84 282,251.53 283,459.83 283,755.00 285,354.62	0.00	TOTAL TOTAL \$43,583,689.98 \$50,926,345.28 \$61,802,687.95 \$64,864,708.04 \$89,365,436.89 \$75,408,687.58 \$92,502,224.37 \$98,636,667.73 \$98,636,647.30 \$1,014,549,529.37 \$1,016,969,482.11 \$1,059,359,650.39	906,482,
EERCENT HOM-RE	O.OST  O.	1.201  1.201  1.201  1.201  1.201  1.201  1.201  1.201  1.201	0.40x	0.352 Red C	0.322	0.12	0.112   0.112   1   1   1   1   1   1   1   1   1	o.ozz	57.902 57.902	oral park	o.oo: photed	the open particularly	Surfey 1921	On the second of	Oraci	Land of French	EN P	0.40x	3.272 C & Rope & C	1.398	o.032	0.90x		Por GIL 1005 Del Dr.
JAHUARY FEGRURRY HARCH HARCH HARY JULEY JULEY SEPTEMBER OCTOREP HOUSESSE GEVERSEE	NON-REG 0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	100+REC 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	NOM-REG 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	NON-REG 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002		NDN-RES 0.001 0.002 0.003 0.003 0.004 0.005 0.005 0.005 0.005 0.006 0.006 0.006 0.007	139-800 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0	3776.46-23 3 MEN-REL 57.472 59.422 59.421 59.421 104.393 100.002 100.002 100.002 100.002 100.002 100.002	776/696/52 3 NDN-REE 6.002 6.002 6.002 6.002 6.002 6.002 6.002 6.002 6.002 6.002 6.002 6.002 6.002 6.002 6.002	NON-REE 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	371C/CPQ4/S4 N3N-RE6 190.002 100.002 100.002 100.002 100.002 100.002 100.002 100.002 100.002 100.002 100.002 100.002	0,002 0,002 0,002 0,002 0,003 0,003	NON-REG 100.001 100.001 100.002 100.002 100.002 100.002 100.002 100.002 100.002 100.002	377C/CPG4/SS 3 NON FEG 0.001 0.002 0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	N9K-RE6 0,002 0,002 0,002 0,002 0,002 0,002 0,002 0,002 0,002 0,002	1.42 1.37 1.54 1.54 1.86 1.96 1.65 2.05	2 1.422 1 4.372 2 1.542 2 1.542 2 1.842 2 1.842 1 1.892 1 1.993 1 2.053 1 2.053 1 2.053	MGH-REC 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002	277C/CPG1/17 MDH-REG 1.432 1.432 1.372 1.542 1.542 1.641 1.893 1.993 2.052 2.052	NON-REG 1.492 1.492 1.372 1.542 1.542 1.662 1.893 1.893 2.651	NON-REE  ERR 77.321 77.321 77.322 77.323 77.323 77.324 77.324 77.324 77.324	ERR ERR ERR ERR ERR ERR ERR ERR ERR	TOTAL MON-RES 1.422 1.422 1.361 1.521 1.521 1.851 1.852 1.932 2.044 2.044	494. 1-1 2-2 1 P
	377C/CPD1 REGULATED 425, 729.41 459, 437.46 473, 039.90 526, 999.52 530, 830.13 528, 585.74 536, 691.81 530, 038.69 530, 161.87 534, 767.74 521, 854.55 525, 500.08	12,639,033.79 12,663,185.48 12,752,012.56 12,511,042.57 12,376,934.56 12,634,712.16 12,464,319.52 12,469,651.19 12,467,159.02 12,517,360.90	6,207,944.43 4,214,445.89 4,272,506.41 4,272,109.51 4,171,801.28 4,127,034.43 4,213,032.23 4,156,216.57 4,151,336.22 4,162,333.85 4,173,310.65 4,203,091.63	REGILATED 3,302,095.49 3,224,252.55 3,238,552.17 3,304,158.06 3,463,904.78 3,422,007.48 3,540,610.90 3,534,333.15 3,576,751.45 3,612,087.27 3,627,543.08 3,702,652.53	REGULATED R 7,979,226.07 1, 2,909,003.21 1, 2,976,038.27 1, 7,981,096.04 1, 3,125,223.62 1, 3,087,422.80 1, 3,198,771.34 1, 3,128,771.34 1, 3,277,036.91 1, 3,278,517.72 1, 3,272,652.35 1,	RESULATED ,130,929.98 ,074,750.62 ,099,517.17 ,101,395.90 ,154,534.70 ,140,658.94 ,180,203.43 ,176,112.85 ,176,12.85 ,204,628.90 ,204,628.90 ,204,628.90	2776/CP02/S6 REGLATED 1,020,353.99 969,567.50 992,012.50 993,589.47 1,041,740.97 1,023,140.69 1,064,809.68 1,062,923.52 1,075,678.65 1,086,305,62 1,090,953.83 1,113,602.53	RESHARCO ; 5,071.53 1,129.90 1,129.90 1,129.93 1,116.89 (0,41.99) 0.00 0.00 0.00 0.00	371C/CP64/S2 REGLATED SS1, 909, 611, 29 554, 799, 316, 15 556, 138, 020, 51 556, 573, 394, 93 556, 573, 394, 79 556, 592, 854, 49 578, 556, 399, 64 578, 556, 399, 64 599, 190, 655, 53 596, 145, 906, 78 597, 597, 269, 68 610, 475, 263, 39	REGULATED 232,054,478.03 232,325,456.10 233,318,415.91 233,981,917.92 236,458,509.30 238,015,003.15 240,731,823,67 241,911,560.24 244,324,216.30 246,806,355.29 247,403,1124.28 251,780,337.71	REGULATED 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	REGULATED 9 7,067,219,71 5 7,063,142,91 6 7,054,804,804,20 0 6,822,856,37 0 6,823,859,26 0 6,749,643,82 0 6,827,748,67 0 6,827,748,67 0 6,827,748,67 7,056,075,26 0 7,078,843,82 0 7,187,281,93	REGULATED 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3775/CPI RESULAT 89, 61 89, 77 29, 31 88, 91 90, 91 90, 91 90, 91 90, 91 90, 91	MED REGULA 25.07 1,717,5 36.34 1,732,2 82.36 1,742,8 95.47 1,946,5 31.79 1,945,7 19.25 1,946,7 19.45 1,946,7 85.97 1,947,9 85.16 1,947,9 85.16 1,947,9	4/510 377C/CPP 1ED REGULATI 85.85 70,715.57 12.62 71,121,32 54.71 72,067,10 51.48 77,637,31 75.90 76,863,87 16.62 76,890,54 59.82 76,890,54 59.82 76,496,56 64.02 78,277,77 02.46 78,467,10	ED REGULATE 6.42 117,593 4.10 115,941 5.87 114,349 4.27 112,498 0.93 110,842 3.12 108,826 2.15 107,205 9.34 103,755 7.06 102,038	D LEGULATEI .95 4,227,833 .59 4,227,837 .55 4,226,653 .20 4,226,653 .95 4,226,653 .96 4,226,653 .98 4,226,653 .99 4,225,77 .07 4,225,77	0	D RESULATI 1.74 20,245,73 1.49 23,575,76 1.05 26,700,21 1.26 23,956,03 1.16 19,428,37 1.30 17,946,32 1.74 17,546,32 1.75 16,570,01 1.80 15,953,87 1.88 5,706,42	1/16 977C/CPP ED REGULATI 5.47 8.90 60,03 1.96 60,03 7.92 60,67 4.25 58,11 7.25 59,80 1.91 64,28	9.54 6.22 0,27 8.24 11.37 5.18 19.62	FLORIDA 101AL 930,161,061 936,841,000 949,683,265 950,116,651 951,324,131 951,324,131 951,024,281 953,44,281 953,44,281 953,44,281	:27 .94 .42 .60 .57 .91 .52 .22

COMPANY: BST
TITLE: AMM\_YSTS OF PEG-MOH-PEG ACCOUNT 2231

TEST YEAR: 1932 OUDITOR: K. WELCH DATE: AUGUST 19, 1993

WORKPOFER #

								FLORIDA	
19HTH	67C CP01-03	67C CF01-04	167C CP01	527C CFOL	567C CP01-03		67C CF02	TOTAL	
	REGULATED	RECULATED	REGULATED	REGULATED	REGULATED	REGULATED	REGULATED R	REGULATED	
Jakuary	889,250.34	697,401.89	7,734,521.09	7,406.48	8,546.20	6,702.44	12,047.82	9,355,956.26	
rebruary	891,506.07	698,996.31	7,666,690.13	7,381.03	8,420.07	6,553.80	14,135.49	9,283,792.09	
<b>INRCH</b>	939,030.72	671,452.22	7,659,611.76	7,275.58	8,640.63	6,178.47	16,050.00	9,308,240.18	
AFRIL.	934,078.13	654,201.66	7,664,676.43	7,170.13	8,588.90	6,015.43	17,255.84	9,291,386.52	
1AY	929,176.81	649,990.69	7,707,346.60	7,064.68	8,466.76	5,922.90	355,730.89	9,663,707.26	
AUNE	927,916.63	651,250.90	7,729,817.67	6,959.23	8,323.08	5,845.71	18,481.36	9,348,600.58	
AK.Y	927,608.39	657,745.89	7,731,837.32	6,853.78	8,168.16	5,791.86	21,299.21	9,359,294.61	
NUCUST	902,429.79	606,405.80	7,740,790.70	G,748.33	0,060.72	5,684.53		9,352,610.79	
SEPTEMBER	939,073.12	625,152,53	8,484,150.78	5,642.88	8,122.93	5,407.55	991,553.14	10,460,102.93	
OCTOBER	937,645.61	626,559,29	8,564,267.02	6,537.43	7,981.95	5,333.76	393,582.97	10,541,908.03	
HOVEMBER	778,425.85	517,029.35	4,225,489.49	6,431.99	7,872.22	5,220.72	102,684.32	5,943,161.93	
ECEMBER	636,077,96	433,646.96	4,470,751.98	6,326.53	7,672.10	5,214.07	274,033.10	5,843,722.70	
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ONTH	67C CP01-03	67C CP01-04	167C CP01	527C CPOL	567C CPOL-03	567C CPOL-04	67C CP02	TOTAL	
	HON-REG	HON-REC	HOH-REG	HON-REG	HOH-REG	HOH-REG	NOH-REG II	HOH-REG	
AHUNRY							* سادق	0.00	
EBRUNRY							,	0.00	
ARCH								0.00	
FRIL								0.00	
AY								0.00	
UNE								0.00	
ULY								0.00	
UCUST							·	0.00	
EPTEMBER								0.00	
CTOSER								0.00	
CUEMBER								0.00	
ECEMBER								0.00	
ONTH	67C CP01-03	67C CF01-04	1670 CP01		567C CP01-03		67C CP02	TOTAL	
	FOTAL	TOTAL	TOTAL	TOTAL	JOINL	TOTAL	fotal t	TOTAL	
MHJARY	899,250.34	697,401.89	7,734,521.09	7,486.48	8,546.20	G,702.44	12,017.82 *	9,355,956.26	
EBRUARY	891,506.07	688,936.31	7,666,600.13	7,391.03	8,480.07	6,553.80	14 195.48 =	9,283,732.89	
		· ·							
ARCH Bari	939,030.72	671,452.22	7,659,611.76	7,275.58	8,640.63	5,178.47	16,050.80 *	9,308,240.10	
PRIL	334,078.13	654,201.66	7,654,676.43	7,170.13	8,589.90	6,015.43	17,255.84	9,291,986.52	
ብ¥	929,176.84	649.990.69	7,707,346.60	7,064.68	8,466.76	5,922.80	355,738.89 •	9,563,707.26	
UÆ	227,916,63	651,250.90	7,729,817.67	6,959.23	8,329.08	5,845.71	18,481.35 4	9,348,600.58	
ULY	927,600.39	657,745.89	7,731,837.32	6,853.78	8,168.16	5,791.86	21,289.21	9,359,294.61	
UGUST	302,423.79	636,405.80	7,740,790.70	6,748.33	8,060.72	5,694.53	52,490.92	9,352,610.79	
	-								
EPTEHBER	939,073.12	625,152.53	8,484,150.78	6,647.88	8,122.93	5,407.55	391,553.14 5	10,460,102.93	
CTOBER	937,645.61	676,559.29	8,664,267.02	6,537.43	7,991.95	5,333.76	393,502.97 •	10,641,908.03	
OVEHBER	778,425.85	517,029.35	4,225,489.49	6,431.98	7,872.22	5,228.72	402,004.32 *	5,943,161.93	
ECEMBER	638,077.96	433,646.96	4,478,751.98	6,326.53	7,672,10	5,214.07	274,033.10	5,813,722.70	
CP TO TOTA		7.421	76.641		: 0.13	0.092	4.69\$*	100.001	
ERCENT HON-	-REG MONTHLY	Deficie	niP.S	of Carr					
ONTH	57C CF01-03	67C CPOL-04	1670 CPO1		557C CP01-03	567C CP01-04	670 CP02	TOTAL	
	HOH-REG	HOH-REG	HOH-REG	NOK-REG	IMH-REG	NON-REG	H PER-HON	HOH-REG	
HAJARY	0.092	0.007	0.001			0.002	0.002*	0.00%	
BRUNRY	0.001	0.001	0,002	0.001		0.001	0.00t«	0.001	
ARCH	200.0	200.0 200.0	0.001			0.001	0.00t×	0.001	
PRIL	0.001	0,001	0.001			0.002	0.0014	0.002	
hY	0.001	0.001	0.001			0.901	0.00%	0.007	
JHE	0.001	0.002	8,691			0.001	0.00%	0.001	
ALY	9.001	0.002	0.00	0.001	100.00	0.001	0.001*	0.00t	
UCUST	0.001	0.001	0.002	0.001	0.001	0.00	0.001*	0.002	
	0.00	0.001	0.002			0.90%	0.002*	0.007	
FFIFMRFP		0.00	gi (0o2	ourid		0.105	0.000	0,003	49.
	8.00					U	31,114	17,191	11
EPTEMBÉP - KCELD WHENDSE	6,000 6,664					11	a ant-	to short	
	1,001 1,004 1,001 1,001	a 1967 o 1964	o mis	n (Pro)	0.76%	8,005 6,005	6,000,*	ii trioghair ii Sight	49- [:

POOUSUB POO JAN, 92		FEB. 92	MARCH 82 A	VP-RL 92	MAY 92	NUME 92	JULY 82	AUGUST 92 S	EPT. 92	2CT.82	HOV. 62	DEC. 92
570712	208.244.744.74	218,443,901.21	218,462,302.41	217,794,332,91	216,002,329,76	216,163,812,59	95,044,194,04	94,713,881,38	94,083,767.67	\$3,254,800,86	92,409,243,99	81,354,209.86
570/13	(18,675,584,87)	(22,479,222,41)	(Z4,000,440.17)	(24, 166, 646, 90)	(22, 304, 630, 90)	(23,043,670,93)	47,928,683,26	44,290,564.85	750,069,77	10,072,132,17	49,360,462,79	44,916,011,09
670714	(12,641,002,59)	(17,204,140,69)	(16,088,001.25)	(18,417,925.29)	(18,665,536,08)	(15,876,880,07)	32,936,388.30	33,002,884,20	32,058,136.36	12,308,672,93	31,741,178.72	22,208,240,73
157073	21,474,450,34	21,607,241.43	21,403,442,15	21,386,461,50	21,462,822.71	21,618,608,49	21,615,000.10	21,588,984.10	21,006,327.34	21,786,329,24	21,581,219.38	21,384,361.37
157011	751,028,486,57	750,845,450,74	767,962,901.14	762,242,101,91	786,438,719.61	768, 678, 626.72	772,530,334,84	774,638,448,10	781,178,296.05	744,621,733,32	788,593,583.02	794,254,683,06
3570/12	44,748,955,44	522,681,040.79	528,670,704.60	528,664,217,16	529,788,987,18	526,666,156.80	215,276,377.74	234,746,370.42	222,347,578,82	227,994,136,50	226,200,467,08	225, 317, 567,95
357C/1/3	(30,182,158,98)	(54,503,168.43)	(56, 162, 787, 03)	(58,754,935,15)	(57,364,707.88)	(68,642,738.37)	116,641,666.60	110,083,734.80	122,061,675.06	122, 181,340.30	120,625,136.86	129,607,670.30
3575/114	(29,807,739,49)	(40,983,918,04)	(40,387,847.56)	(38,916,646,34)	(36,913,263.06)	(54,539,638,44)	81,527,677,15	81,746,222,28	78,166,256.20	78,943,681.15	77,698,441,83	78,412,870.96
357C/277				24,036.73	27,111,72	25,528,73	24.13	22,526,73	25,194,95	25,096,06	19,178.96	19,178.86
367C/99/2	78,564.00		158,128.00	79,564,00	79,544.00	78,564.00	79,564.00	79,564.00	79.664.00	79,564.00	78,564.00	79,564.00
4570/1/5	178,062.50	179,366.71	179,771,28	181,243.83	184,646.32	146,702.84	164,137.00	167,570.41	24.673.72	144,787.32	145,391.85	8,791.36
557C/1/2	153,600,06	446,946,55	177,342.20	864,570.00	17,096.71	832,621.46	365,321,75	35.00,300	344,617,08	346,762.29	236,068.02	328,611,14
5570/12	(47,454,91)	(92,347.64)	(98,524.80)	(96,901.74)	(91,754,49)	(85,172,39)	183,211.26	111,058.24	184,343,43	182,580.54	179,521.66	178,005.56
5570/14	(\$1,964.33)	(89,441,26)	(87,026,84)	(65,172.48)	(62,218.84)	(90,672,77)	125,886.19	124,128.01	114,780.51	118,050,10	115,441.17	115,669.05
5970/1/2	138,384.41	141,519,12	140,148,04	134,104.78	138,313.34	133,001,28	54,636.28	54,014.10	95,687.39	54,432.58	53,688.02	52,523,63
59757173	(10,603.85)	(14,751.41)	(15,418,67)	(15, EZ 26.)	(14,664.67)	(14,244.21)	28,265.73	28,017.72	28,448.85	29,166,63	28,678,43	28,114.78
507C/1/4	(4,252.76)	(11,092,41)	(10,700.57)	(10,410.52)	(9,838.87)	(0,100,75)	28,116,73	19, 127, 69	18,973,78	18,857.08	18,440,36	16,511.89
\$67C/1/1	\$,022,072.78	4,996,229.56	4,868,806.47	4,645,459.03	4,814,063.43	4,804,931.74	4,774,967.22	4,788,872,05	4,722,578.28	4,692,815.10	4,658,413.20	4,644,251.84
0257C/1/5	37,515,37	38,300.97	76,000.97	24,586.24	63,644.14	56,821.62	58,300.33	71,662.97	108,428,34	207,490.68	220,875.73	220,977.99
F2S7C/1/S	140,912,022.83	146,314,600,55	151,240,122.73	156,928,277.15	150,424,616,46	164,534,234,51	170,516,881.37	174,017,174,67	161,522,996,67	101,464,101.30	197,098,467.17	201,440,069.42
T357C11/2	156,549,454,58	105,759,336.36	167,064,966,45	164,291,814.28	160,167,860,71	172,006,750,15	77,178,427.50	77,951,688.5E	78,434,943.29	79,604,626.54	80,938,555.25	24, 145, 278,95
T367C/1/3	(12,401,281.37)	(17,278,133,22)	(18,378,996,74)	(18,872,472.90)	(18,323,660.89)	(18,421,541.57)	36,916,057.94	38,743,206.07	41,476,208,72	42,663,967.62	43,233,920.47	45,041,165.29
TOSTCHA	(0,472,969,44)	(12,982,374,24)	(12,762,880.55)	(12,686,086,23)	(12,425,500.36)	(12,534,064.03)	26,744,199.89	27,166,364.44	28,724,283,05	27,578,078,22	27,801,513.08	29,656,818.65
5702	115,000.87	129,751.97	288,228.93	250,728.73	200,962,06	285,044.22	142,228,30	136,156.19	17,270.24	44,931,96	52,219.19	204, 875, 66
257C/Z	84, 222, 35	525,178,42	538,456.04	349,253.17	103, 674,32	1979, 194.41	368,723.60	742,323.78	413,969.37	655,684,63	712,973,18	905,013.04
287C/2	887,318,30	924,928,64	1,217,302,96	1,222,438.64	1,254,758.35	1,296,904.90	1,373,122.03	910,913,01	867,087.08	1,125,488.18	1, 195,494.06	649,298.74
F257C/2	27,23,75	4,36,4	44,672.28	135,780.54	199,633.62	194,030.27	196,518.15	\$2,548.06	24,020,72	102,064,24	104,521.21	108,572.03
T357C/2	219,728,31	305,448.28	304,902,25	311,139,34	213,040,23	315,792,59	461,571,33	320,012.14	418,944,76	122,678,07	436,812.59	371,594,16
37c/2/T8	61,205.85	40,156.04	113,353.99	179,733.98	121,167,28	96,739.02	167,148.15	167,421.81	216,448.02	88,819.67	161,680.37	282,305.37
SPC/2/18	1,056,798.11	1,174,709.25	1,186,384.61	994,560.40	154,076,58	1,123,666.04	\$81,016.23	1,248,494.55	1,506,587.00	1,966,494,19	1,673,428.54	1,825,563,71
SPCCZTB	2,283,383.18	1,153,078.61	1,046,470,29	2,009,563.60	2,247,467,43	2,296,204,79	2,210,418,26	2,317,828.72	2,037,019,43	1,404,628.13	1,356,816.05	1,003,224,23
D257C/2/T&	1,785.60											
F257C/2/TB	668,869.90	654,835.28	544,000.53	607,218.60	361,639,35	286,436,87	408,096.34	127,040,77	162,464,32	145,507,18	227,002.50	197928741
TSECCETS	478,463,74	503,584.41	616,637,61	436,768.20	376,897.48	402,559.41	768,541.22	1,352,606.06	1,437,425.80	1,616,471.75	1,362,836.67	1,206,696.00
	1,667,102,154.05	1,674,804,224,49	1,686,986,773.20	1,697,018,944.01	1,708,788,625.67	1,720,958,836.05	1,732,210,158.98	1,741,588,407.48	1,754,411,434.80	1,700,195,144.47	1,770,756,081.60	1,787,522,666,14

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STATE: Alabama	_					
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL <u>USE</u>	NONREGULATE USE	REGULATED USE	NONREG RATIO
ACCOUNT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:  1993 1994 1995	CDAR  CDAR	CALL VOLUMES (ORIGINATING+ INCOMING)*	8.103,046,116 5.634,067,859 5.317,424,003	0 0 0	8.103,046,116 5,634,067,859 5,317,424,003	<u>o</u>
ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR:  1993 1994 1995		CALL VOLUMES (ORIGINATING ONLY)*	4,624,440,831 3,215,385,063 3,034,675,148	<u>o</u> 0	4,624,440,831 3,215,385,063 3,034,675,148	<u>0</u> 0 0
ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON FORECAST YEAR: 1993 1994 1995		packets conv	ERTED**	5621.13 8157.15 10693.17	100,231 136,893 173,555	0.0531036731 0.0562368149 0.0580368308
ACCOUNT 2212 COST POOL: COMMON USE PROCESSOR & MEMORY	CDAR	CALL VOLUMES (ORIGINATING + INCOMING)*	ı			
FORECAST YEAR: 1993 1994 1995			31,358,111,415 36,563,369,151 38,554,814,078	<u>0</u> 0 0	31,358,111,415 36,563,369,151 38,554,814,078	<u>o</u> 0

PAGE 2 of 2

ACCOUNT/COST/POOL/ PRODUCT/ UNIT OF TOTAL NONREGULATE REGULATED NONREG YEAR OF FORECAST USE USE USE RATIO  ACCOUNT 2212 CDAR CALL VOLUMES COST POOL: COMMON USE (ORIGINATING UNIVERSAL TONE ONLY)*	
COST POOL: COMMON USE (ORIGINATING	
DECODER/RECEIVER FORECAST YEAR:  1993  17,237,052,115  20,098,299,008  0 20,098,299,008	O O
ACCOUNT 2212 COST POOL: COMMON USE INFORMATION STORAGE, FORWARD & RETREIVAL FORECAST YEAR:  1995  21,192,964,422  0 21,192,964,422	47400
1993 1994 1995 20,319,496 28,136,111 27,372,023 34,303,135 32,315,383 1,987,752 0,94205	31552

Total Use = Total Call Volumes, Average Month, for type of switch.

Nonreg. Use = CDAR Call Volumes, Average Month, for type of switch.

Reg. Use = Basic (Non-CDAR) Call Volumes, Average Month, for type of switch.

Note:

Total Use to be provided by NEPCOT Group in BSS Network.

- \*\* Total Use = Total Packets Switched, Public & Corporate, Annual Nonreg. Use = Public Packets undergoing net protocol conversion, Annual Reg. Use = Basic Packets Switched, Public & Corporate, Annual
- @ Total Use + Total Minutes Connect Time, Public & Corporate, Annual Nonreg. Use = Public Minutes Connect Time, Annual Reg. Use = Corporate Minutes Connect Time, Annual Note: Corporate Use represents only BOC official Use. Use by affillates is to be considered nonregulated

STATE: Florida						
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	nonregul <u>USE</u>	REGULATED USE	NONREG <u>RATIO</u>
ACCOUNT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:  1993 1994 1995	CDAR	CALL VOLUMES (ORIGINATING+ INCOMING)*	50,571,527,365 30,165,926,613 20,909,739,582	<u>3,887</u> 3,963 4,040	50,571,523,478 30,165,922,650 20,909,735,542	0.0000000769 0.0000001314 0.0000001932
ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR: 1993 1994 1995	CDAR	CALL VOLUMES (ORIGINATING ONLY)*	29,965,856,695 17,874,640,434 12,389,942,377	<u>3,887</u> 3,963 4,040	29,965,852,808 17,874,636,471 12,389,938,337	0.0000001297 0.0000002217 0.0000003261
ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON FORECAST YEAR: 1993 1994	PROTOCOL CONVERSION	PACKETS CONVI	<u>1046065</u> 1537218	<u>362,222.3</u> 542,695.8		0.3462712738 0.3530376303
1995 ACCOUNT 2212	CDAR	CALL VOLUMES	<u>2028372</u>	<u>723,169.4</u>	<u>1,305,203</u>	0.3565269832
COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR: 1993		(ORIGINATING + INCOMING)*	130,271,789,815	<u>18,247</u>	130,271,771,568	<u>0.000001401</u>
1994 1995			131,064,810,021 146,639,106,457	18,605 18,962	131,064,791,416 146,639,087,495	0.00000142 0.000001293

1995

STATE:Florida						PAGE 2 of 2
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	NONREGUL USE	REGULATED USE	NONREG RATIO
ACCOUNT 2212 COST POOL: COMMON USE UNIVERSAL TONE DECODER/RECEIVER FORECAST YEAR: 1993 1994 1995	CDAR	CALL VOLUMES (ORIGINATING ONLY)*	66,528,491,022 66,933,496,933 74,887,134,555	18,247 18,605 18,962	66,528,472,775 66,933,478,328 74,887,115,593	0.0000002743 0.000000278 0.0000002532
ACCOUNT 2212 COST POOL: COMMON USE INFORMATION STORAGE, FORWARD & RETREIVAL FORECAST YEAR: 1993	MEMORY- CALL	CONNECT TIME	<u>15,395,505</u>	14,867,385	528,120	0.9656964809
1994			19,392,267	18,722,235	670,032	0.9654484955

<u>22,799,634</u> <u>21,930,870</u>

868,764 0.9618957041

@ Total Use + Total Minutes Connect Time, Public & Corporate, Annual Nonreg. Use = Public Minutes Connect Time, Annual Reg. Use = Corporate Minutes Connect Time, Annual Note: Corporate Use represents only BOC official Use. Use by affiliates is to be considered nonregulated

Total Use = Total Call Volumes, Average Month, for type of switch.
 Nonreg. Use = CDAR Call Volumes, Average Month, for type of switch.
 Reg. Use = Basic (Non-CDAR) Call Volumes, Average Month, for type of switch.
 Note:
 Total Use to be provided by NEPCOT Group in BSS Network.

<sup>\*\*</sup> Total Use = Total Packets Switched, Public & Corporate, Annual Nonreg. Use = Public Packets undergoing net protocol conversion, Annual Reg. Use = Basic Packets Switched, Public & Corporate, Annual

	STATE: Georgia	<del>-</del>					
	ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	NONREGULATE USE	REGULATED USE	NONREG RATIO
	ACCOUNT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUMES (ORIGINATING+	<i>(</i>	,		
	1993 1994 1995			41,018,606,285 36,967,030,259 27,414,702,311	16,123 16,439 16,755	41,018,590,162 36,967,013,820 27,414,685,556	0.0000003931 0.0000004447 0.0000006112
	ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR:	CDAR	CALL VOLUMES (ORIGINATING ONLY)				
	1993 1994 1995	·	·	23,909,629,273 21,547,977,894 15,979,954,722	<u>16.123</u> 1 <u>6.439</u> 16.755	23,909,613,150 21,547,961,455 15,979,937,967	0.0000006743 0.0000007629 0.0000010485
	ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON FORECAST YEAR:	PROTOCOL CONVERSION	PACKETS CONV	ERTED			
	1993 1994 1995			<u>2175524</u> <u>3136388</u> <u>4097251</u>	278814.53 415683.84 552553.15	<u>1,896,709</u> <u>2,720,704</u> <u>3,544,698</u>	0.1281597123 0.132535847 0.1348594826
١.	ACCOUNT 2212 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUMES (ORIGINATING + INCOMING)				
	1993 1994 1995			64,546,789,841 78,975,705,327 94,237,033,742	<u>14,643</u> <u>14,930</u> <u>15,217</u>		0.000002269 0.00000189 0.000001615

STATE: Georgia						PAGE 2 of 2
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	NONREGULATE USE	REGULATED USE	NONREG RATIO
ACCOUNT 2212 COST POOL: COMMON USE UNIVERSAL TONE DECODER/RECEIVER FORECAST YEAR: 1993 1994 1995	CDAR	CALL VOLUMES (ORIGINATING ONLY)	34,601,381,679 42,336,240,744 50,517,328,536	14,643 14,930 15,217	34,601,367,036 42,336,225,814 50,517,313,319	0.0000004232 0.0000003527 0.0000003012
ACCOUNT 2212 COST POOL: COMMON USE INFORMATION STORAGE, FORWARD & RETREIVAL FORECAST YEAR: 1993 1994 1995	MEMORY- CALL	CONNECT TIME	<u>58,874,222</u> 7 <u>8,633,270</u> 99,621,335	48,436,694 66,226,902 84,668,783	10,437,528 12,406,368 14,952,552	0.8227148038 0.8422249513 0.849906127

Total Use = Total Call Volumes, Average Month, for type of switch.

Nonreg. Use = CDAR Call Volumes, Average Month, for type of switch.

Reg. Use = Basic (Non-CDAR) Call Volumes, Average Month, for type of switch.

Note:

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Total Use = Total Packets Switched, Public & Corporate, Annual Nonreg. Use = Public Packets undergoing net protocol conversion, Annual Reg. Use = Basic Packets Switched, Public & Corporate, Annual

Total Use + Total Minutes Connect Time, Public & Corporate, Annual
Nonreg. Use = Public Minutes Connect Time, Annual
Reg. Use = Corporate Minutes Connect Time, Annual
Note: Corporate Use represents only BOC Official Use. Use by affiliates is to be considered nonregulated.

STATE: Kentucky						
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL <u>USE</u>	NONREGULA USE	REGULATED USE	NONREG RATIO
ACCOUNT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:  1993 1994 1995	CDAR	CALL VOLUMI (ORIGINATING INCOMING)*		<u>23,999</u> <u>24,469</u> <u>24,940</u>	<u>2,514,375,862</u> 2,067,107,894 <u>874,318,841</u>	0.0000095446 0.0000118372 0.0000285242
ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR: 1993 1994 1995	CDAR	CALL VOLUMI (ORIGINATING ONLY)		23,999 24,469 24,940	1,610,289,276 1,323,844,110 559,942,638	0.0000149033 0.000018483 0.0000445383
ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON FORECAST YEAR:	PROTOCOL CONVERSION	PACKETS CO	NVERTED			,
1993 1994 1995			384 <u>17</u> 4365 <u>1</u> 48885	1002.29 1223.93 1445.58	37,41 <u>5</u> 42,427 47,439	0.0260897519 0.0280389911 0.0295710341
ACCOUNT 2212 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUM (ORIGINATING INCOMING)				
1993 1994 1995			22,114,869,198 25,044,678,869 29,783,779,469	<u>883,928</u> <u>901,260</u> <u>918,592</u>	22,113,985,270 25,043,777,609 29,782,860,877	0.0000399698 0.0000359861 0.000030842

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STATE: Kentucky		FORECAST				
ACCOUNT/COST/POOL/	PRODUCT/	UNIT OF	TOTAL	NONREGULA	REGULATED	NONREG
YEAR OF FORECAST	SERVICE	<u>USAGE</u>	<u>UŚE</u>	<u>USE</u>	USE	RATIO
ACCOUNT 2212 COST POOL: COMMON USE UNIVERSAL TONE DECODER/RECEIVER FORECAST YEAR: 1993 1994	CDAR	CALL VOLUM (ORIGINATING ONLY)		883,928 901,260	<u>12,222,468,963</u> 13,841,774,371	0.0000723147 0.0000651074
1995			16,461,999,137	<u>918,592</u>	16,461,080,545	0.0000558008
ACCOUNT 2212 COST POOL: COMMON USE INFORMATION STORAGE, FORWARD & RETREIVAL FORECAST YEAR:	MEMORY- CALL	CONNECT TII	ME .			
1993			32,885,075	31,849,115	1,035,960	0.9684975631
1994 1995	·		<u>47,988,660</u> - <u>65,337,878</u>	46,429,740 61,811,390	<u>1,558,920</u> <u>3,526,488</u>	0.9675148254 0.9460268973

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 Reg. Use = Basic (Non-CDAR) Call Volumes, Average Month, for type of switch.
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- Total Use + Total Minutes Connect Time, Public & Corporate, Annual Nonreg. Use = Public Minutes Connect Time, Annual Reg. Use = Corporate Minutes Connect Time, Annual Note: Corporate Use represents only BOC official Use. Use by affiliates is to be considered nonregulated.

STATE: Louisiana						
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	NONREGULA USE	REGULATED USE	NONREG RATIO
ACCOUNT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR: 1993 1994	CDAR	INCOMING), (OBIGINATING CALL VOLUM		<u>o</u>	13,686,812,138 9,001,207,566	<u>0</u> 0
<u> 1995</u>			<u>7,495,554,475</u>	ō	<u>7,495,554,475</u>	Q
ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR:	CDAR	CALL VOLUM (ORIGINATING ONLY)	<del></del>			
1993 1994	•		8,452,838,308	<u>Q</u>	8,452,838,308 5,559,055,781	ō
1995	•		5,559,055,781 4,629,179,488	. <u>ō</u>	4,629,179,488	0 0 0
ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON	PROTOCOL CONVERSION	PACKETS CO N	NVERTED .			
FORECAST YEAR: 1993 1994 1995			<u>120478</u> <u>142457</u> <u>164436</u>	7220.49 10065.52 12910.55	113,258 132,391 151,525	0.0599320208 0.070656549 0.0785141332
ACCOUNT 2212 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUM (ORIGINATINI INCOMING)				
1993 1994 1995			34,104,917,634 45,443,034,364 47,683,098,387	<u>0</u> 0 0	<u>45,443,034,364</u>	<u>0</u>

INFORMATION STORAGE, FORWARD & RETREIVAL FORECAST YEAR: 1993

1994

1995

ţ

STATE: Louisiana						PAGE 2 of 2	!
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	NONREGULA USE	REGULATED USE	NONREG RATIO	
ACCOUNT 2212 COST POOL: COMMON USE UNIVERSAL TONE DECODER/RECEIVER FORECAST YEAR: 1993 1994 1995	CDAR	CALL VOLUM (ORIGINATING ONLY)		<u>o</u> 0	19,397,557,930 25,846,240,153 27,120,301,921		0 0 0
ACCOUNT 2212 COST POOL: COMMON USE	MEMORY-	CONNECT TH	ME				

22,313,100

46,991,802

71,980,317

21,553,740

66,542,865

0.9727639302

0.9244591824

A de

@ Total Use + Total Minutes Connect Time, Public & Corporate, Annual Nonreg. Use = Public Minutes Connect Time, Annual Reg. Use = Corporate Minutes Connect Time, Annual Note: Corporate Use represents only BOC official Use. Use by affillates is to be considered nonregulated

Total Use - Total Call Volumes, Average Month, for type of switch.
 Nonreg. Use - CDAR Call Volumes, Average Month, for type of switch.
 Reg. Use - Basic (Non-CDAR) Call Volumes, Average Month, for type of switch.
 Note: - Total Use to be provided by NEPCOT Group in BSS Network.

<sup>\*\*</sup> Total Use = Total Packets Switched, Public & Corporate, Annual
Nonreg. Use = Public Packets undergoing net protocol conversion, Annual
Reg. Use = Basic Packets Switched, Public & Corporate, Annual

STATE: Mississippi	_					
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE		TOTAL	NONREGULA USE	REGULATED USE	NONREG RATIO
ACCOUNT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR: 1993 1994	CDAR	CALL VOLUMI (ORIGINATING INCOMING)*		<u>ō</u>	<u>552,968,278</u> 390,223,427	<u>o</u> <u>o</u> o
1995			<u>257,535,334</u>	j 0	<u>257,535,334</u>	<u>0</u>
ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR:	CDAR	CALL VOLUMI (ORIGINATING ONLY)				
1993 1994 1995			391,808,438 276,494,760 182,477,949	<u>0</u> 0	391,808,438 276,494,760 182,477,949	<u>0</u> 0 0
ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON FORECAST YEAR:	PROTOCOL CONVERSION	PACKETS COI	NVERTED			
1993 1994 1995			<u>78787</u> <u>89063</u> <u>99340</u>	1575.73 1781.26 1986.79	77,211 87,282 97,353	0.0199998731 0.02 0.0199998993
ACCOUNT 2212 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUMI (ORIGINATING INCOMING)		÷	*	
1993 1994 1995			10,156,243,694 13,079,815,509 13,609,058,153	<u> </u>	10,156,243,694 13,079,815,509 13,609,058,153	<u>o</u> 0

ST/	\TE;_	<u>Missi</u>	issippi	l

ACCOUNT/COST/POOL/

YEAR OF FORECAST

**FORECAST** 

PRODUCT/ SERVICE

UNIT OF USAGE

**NONREGULA REGULATED** TOTAL USE USE

NONREG RATIO

ACCOUNT 2212--

CDAR COST POOL: COMMON USE

CALL VOLUMES (ORIGINATING

UNIVERSAL TONE

ONLY)

DECODER/RECEIVER

FORECAST YEAR:

1993

1994 1995

600,348,166 7,731,641,243

600,348,166 0 7,731,641,243 0 8,044,483,137

USE

<u>0</u> 0

**ACCOUNT 2212--**

MEMORY-

CONNECT TIME

COST POOL: COMMON USE CALL

INFORMATION STORAGE, **FORWARD & RETREIVAL** 

FORECAST YEAR:

1993 1994 1995

19,449,133

18,472,021 14,194,469

977,112 0.9497606397 16,298,755 0.817632052

\* Total Use - Total Call Volumes, Average Month, for type of switch. Nonreg. Use - CDAR Call Volumes, Average Month, for type of switch. Reg. Use = Basic (Non-CDAR) Call Volumes, Average Month, for type of switch. Note: Total Use to be provided by NEPCOT Group in BSS Network.

- \*\* Total Use = Total Packets Switched, Public & Corporate, Annual Nonreg. Use = Public Packets undergoing net protocol conversion, Annual Reg. Use - Basic Packets Switched, Public & Corporate, Annual
- @ Total Use + Total Minutes Connect Time, Public & Corporate, Annual Nonreg. Use = Public Minutes Connect Time, Annual Reg. Use - Corporate Minutes Connect Time, Annual Note: Corporate Use represents only BOC official Use. Use by affiliates is to be considered nonregulated

STATE: North Carolina	_					
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	NONREGULA USE	REGULATED USE	NONREG RATIO
ACCOUÑT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR: 1993	CDAR	CALL VOLUM (ORIGINATING INCOMING)*		ō	1,579,367,045	ń
1994 1995			1,162,336,134 841,796,695	<u> </u>	1,162,336,134 841,796,695	<u>o</u> 0
ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR:	CDAR	CALL VOLUM (ORIGINATING ONLY)				
1993 1994 1995			932,808,923 686,501,292 497,183,648	<u>o</u>	932,808,923 686,501,292 497,183,648	<u>o</u> 0
ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON FORECAST YEAR:	PROTOCOL CONVERSION	PACKETS CO N	NVERTED			
1993 1994 1995			47698 <u>5</u> 713842 950699	65804.8 98674.5 131544.2	411,180 615,168 819,155	0.1379598939 0.1382301686 0.1383657709
ACCOUNT 2212 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUM (ORIGINATING INCOMING)				
1993 1994 1995			49,868,824,219 54,204,293,044 57,539,466,951	<u>57,078</u> <u>58,197</u> <u>59,317</u>	49,868,767,141 54,204,234,847 57,539,407,634	0.0000011446 0.0000010737 0.0000010309

STATE: North Carolina						PAGE 2 of 2
		FORECAST				
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	UNIT OF USAGE	TOTAL <u>USE</u>	NONREGULA USE	REGULATED USE	NONREG RATIO
		<u> </u>	200	<u>oor</u>	200	UVIIO
ACCOUNT 2212 COST POOL: COMMON USE UNIVERSAL TONE DECODER/RECEIVER FORECAST YEAR: 1993	CDAR	CALL VOLUM (ORIGINATIN ONLY)	- <del>-</del>	<u>57,078</u>	26,732,977,909	0.0000021351
1994			29,057,135,318	<u>58,197</u>	29.057,077,121	0.0000021031
1995			<u>30,845,011,004</u>	<u>59,317</u>	<u>30,844,951,687</u>	0.0000019231
ACCOUNT 2212 COST POOL: COMMON USE INFORMATION STORAGE, FORWARD & RETREIVAL FORECAST YEAR:	MEMORY- E CALL	CONNECT TI	ME			·
1993 1994	•		<u>31,049,305</u> 59,751,378		<u>2,424,060</u> <u>3,543,288</u>	0.9219286873 0.9406994764
1995			, <u>92,348,418</u>	84,308,730	8,039,688	0.9129417896

- Total Use = Total Call Volumes, Average Month, for type of switch.
   Nonreg. Use = CDAR Call Volumes, Average Month, for type of switch.
   Reg. Use = Basic (Non-CDAR) Call Volumes, Average Month, for type of switch.
   Note:
   Total Use to be provided by NEPCOT Group in BSS Network.
- \*\* Total Use = Total Packets Switched, Public & Corporate, Annual Nonreg. Use = Public Packets undergoing net protocol conversion, Annual Reg. Use = Basic Packets Switched, Public & Corporate, Annual
- @ Total Use + Total Minutes Connect Time, Public & Corporate, Annual Nonreg. Use = Public Minutes Connect Time, Annual Reg. Use = Corporate Minutes Connect Time, Annual Note: Corporate Use represents only BOC official Use. Use by affiliates is to be considered nonregulated

STATE: South Carolina						
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	NONREGULA <u>USE</u>	REGULATED <u>USE</u>	NONREG RATIO
ACCOUNT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:  1993 1994 1995	CDAR	CALL VOLUM (ORIGINATING INCOMING)*		<u> </u>	463,294,417 142,496,432 20,270,303	ō ō
ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR:	CDAR	CALL VOLUM (ORIGINATING ONLY)	à			
1993 1994 1995			265,250,416 81,583,625 11,605,371	0 0 0	265,250,416 81,583,625 11,605,371	<u>0</u> 0 0
ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON FORECAST YEAR:	PROTOCOL CONVERSION	PACKETS CO	NVERTED			
1993 1994 1995			<u>37443</u> <u>47497</u> <u>57552</u>	2825.37 4064.71 5304.05	34,618 43,432 52,248	0.075457696 0.085578247 0.0921610022
ACCOUNT 2212 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUM (ORIGINATING INCOMING)				
1993 1994 1995			32,435,266,116 35,617,548,919 38,027,071,310	1,525 1,555 1,585	32,435,264,591 35,617,547,364 38,027,069,725	0.00000047 0.0000000437 0.0000000417

STATE: South Carolina						
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL USE	NONREGULA <u>USE</u>	REGULATED USE	NONREG RATIO
ACCOUNT 2212 COST POOL: COMMON USE UNIVERSAL TONE	CDAR	CALL VOLUM (ORIGINATING ONLY)				
DECODER/RECEIVER FORECAST YEAR:			*			
1993 1994 1995			17,343,568,705 19,045,177,639 20,333,581,308	1,525 1,555 1,585	17,343,567,180 19,045,176,084 20,333,579,723	0.0000000879 0.0000000816 0.0000000779
ACCOUNT 2212	MEMORY-	CONNECT TIME	ME			·

PAGE 2 of 2

ACCOUNT 2212-- MEMORY- CONNECT TIME COST POOL: COMMON USE CALL INFORMATION STORAGE, FORWARD & RETREIVAL

FORECAST YEAR: 1993 1994

1993		43,060,132	42,001,360	1,058,772	0.97541178
1994	*	61,510,852	59,882,140		0.9735215503
1995		78,487,248	74,779,680		0.9527621608

<sup>\*</sup> Total Use = Total Call Volumes, Average Month, for type of switch.

Nonreg. Use = CDAR Call Volumes, Average Month, for type of switch.

Reg. Use = Basic (Non-CDAR) Call Volumes, Average Month, for type of switch.

Note:

Total Use to be provided by NEPCOT Group in BSS Network.

- \*\* Total Use = Total Packets Switched, Public & Corporate, Annual
  Nonreg. Use = Public Packets undergoing net protocol conversion, Annual
  Reg. Use = Basic Packets Switched, Public & Corporate, Annual
- @ Total Use + Total Minutes Connect Time, Public & Corporate, Annual Nonreg. Use = Public Minutes Connect Time, Annual Reg. Use = Corporate Minutes Connect Time, Annual Note: Corporate Use represents only BOC official Use. Use by affiliates is to be considered nonregulated

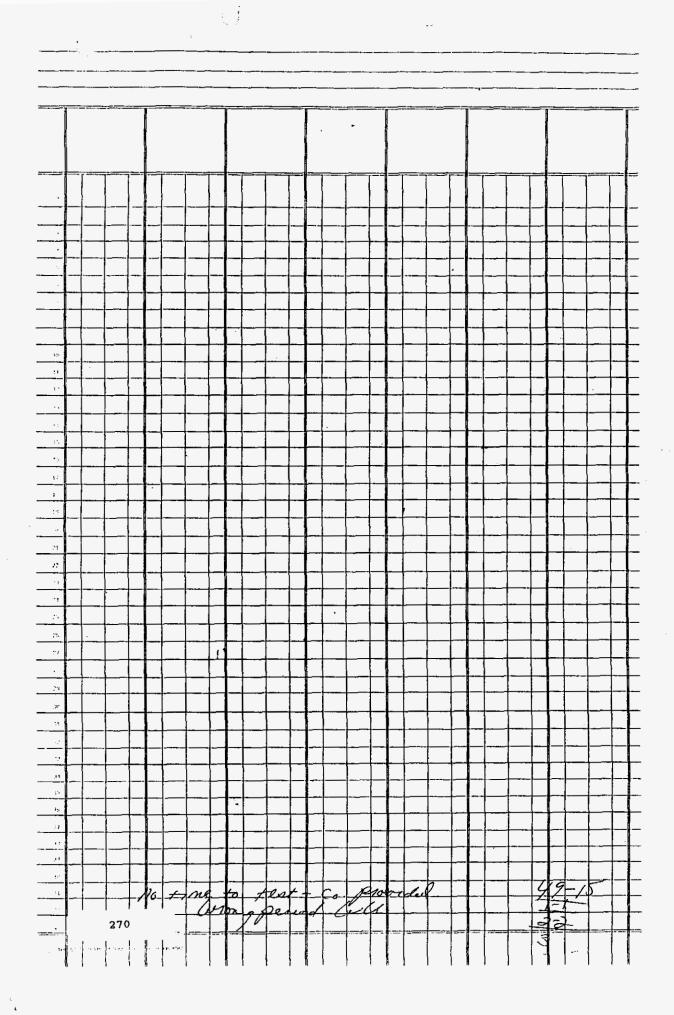
STATE: Tennessee	-					
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	FORECAST UNIT OF USAGE	TOTAL <u>UȘE</u>	NONREGULA <u>USE</u>	REGULATED USE	NONREG RATIO
ACCOUNT 2211 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUMI (ORIGINATING INCOMING)*			·	
1993 1994 1995			12,554,418,091 7,256,126,939 2,471,883,102	<u>188,309</u> <u>192,002</u> <u>195,694</u>	12,554,229,782 7,255,934,937 2,471,687,408	0.0000149994 0.0000264607 0.000079168
ACCOUNT 2211 COST POOL: COMMON USE TOUCH TONE CUSTOMER DIGIT RECEIVER FORECAST YEAR:	CDAR	CALL VOLUMI (ORIGINATING ONLY)				٠.
1993 1994 1995			7,584,738,353 4,383,814,302 1,493,448,340	188,309 192,002 195,694	7,584,550,044 4,383,622,300 1,493,252,646	0.0000248274 0.0000437979 0.000131035
ACCOUNT 2212 COST POOL: PACKET SWITCH-COMMON FORECAST YEAR:	PROTOCOL CONVERSION		NVERTED			
1993 1994 1995			223083 270597 318111	<u>8102.8</u> <u>10873.65</u> <u>13644.49</u>	214,980 259,723 304,467	0.0363219071 0.0401839267 0.0428922294
ACCOUNT 2212 COST POOL: COMMON USE PROCESSOR & MEMORY FORECAST YEAR:	CDAR	CALL VOLUMI (ORIGINATING INCOMING)	<del></del>			
1993 1994 1995			40,509,243,678 54,351,430,753 59,195,065,673	<u>o</u>	40,509,243,678 54,351,430,753 59,195,065,673	<u>0</u> 0

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OTATE: Tax						PAGE 2 of 2	
STATE: Tennessee		FORECAST					
ACCOUNT/COST/POOL/ YEAR OF FORECAST	PRODUCT/ SERVICE	UNIT OF USAGE	TOTAL USE	NONREGULA USE	REGULATED USE	NONREG RATIO	
ACCOUNT 2212 COST POOL: COMMON USE UNIVERSAL TONE DECODER/RECEIVER FORECAST YEAR: 1993 1994 1995	CDAR	CALL VOLUM (ORIGINATING ONLY)	<del>-</del>	<u>o</u> <u>o</u>	23,089,642,571 30,991,550,571 33,753,423,708		000
ACCOUNT 2212 COST POOL: COMMON USE INFORMATION STORAGE, FORWARD & RETREIVAL FORECAST YEAR:	MEMORY- CALL	CONNECT TI	ME			·	
1993			86,660,991	84,288,675	2,372,316	0.972625330	14
1994	•		127,963,053	124,539,885	3,423,168	0.973248778	3
1995			166,695,129	158,367,165	8,327,964	0.950040747	7

Total Use = Total Call Volumes, Average Month, for type of switch.
 Nonreg. Use = CDAR Call Volumes, Average Month, for type of switch.
 Reg. Use = Basic (Non-CDAR) Call Volumes, Average Month, for type of switch.
 Note:
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- © Total Use + Total Minutes Connect Time, Public & Corporate, Annual Nonreg. Use = Public Minutes Connect Time, Annual Reg. Use = Corporate Minutes Connect Time, Annual Note: Corporate Use represents only BOC official Use. Use by affiliates is to be considered nonregulated





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AUGITING A FINANCIAL ANALYSIS DIV

Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260-TL

Audit

Date: 08/31/93 Item No. 1-145 Page 1 of 1

Request: Provide the FCC Audit Report discussed in our August 25

interview.

Response: The FCC Audit Report on the audit of BellSouth's enhanced service - - protocol processing, dated December 30, 1992 will be sent in the overnight mail on September 15, 1993.

This is the FCC Audit Report which was discussed in the August 25 interview.

This material constitutes proprietary confidential business information and is being produced subject to a "Notice of Intent to Request Confidential

Classification."

Date Provided: September 15, 1993

#### FEDERAL COMMUNICATIONS COMMISSION WARHINGTON, O.C. 15884

December 30, 1992 : 1

Mr. Maurice P. Talbot, Jr. Director, Federal Regulatory BellSouth Corporation 1133 21th Street N.W. Suite 900 Washington, D.C. 20036

Dear Mr. Talbot:

We have domplated our audit of BellSouth's enhanced service -- protocol processing. The field work.was conducted at BellSouth Telecommunications -formerly Southern Bell, South Central Bell and BellSouth Services -- and its Cost Allocation Group during 1990 and 1991. The purpose of the audit was to svaluate the adequacy of BellSouth Bell Operating Companies' (BOCH) compliance with the Commission's Joint Costs Order and related guidelines, and the Automated Reporting Management Information Systems (ARMIS) requirements, for separating and allocating joint and common costs associated with central office equipment (COE). The audit assessed whether the procedures implemented by Relisouth for identifying and reporting whered common central office investment associated with both regulated and nonregulated services were in compliance with the requirements of the Joint Costs Order and other applicable rules and policies of the Commission.

The Joint Cost rules require the regulated telephone companies to directly assign investment that's dedicated solely to the provision of a specific service on a fully distributed cost causablve basis, either to regulated-basis services -- or to nonregulated -- enhanced services. Investment that's used on either a joint or common basis for the provision of both regulated and nonregulated services should be allocated between the services on a fully distributed cost causative relative usage basis.

The Commission considers protocol processing to be a nonregulated enhanced service when a subscriber's transmitted data involves a net-protocol conversion, i.a., when the originating and terminating end-to-end protocols of A subscriber's data transmission are different. On the other hand, protocol processing is a basic service (regulated) when the subscriber's originating data protocol is the same as the terminating protocol.

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Generally, we found that the BellBouth BCCs are allocating the costs of ocusion components of the COE investment that are directly associated with protocol conversion to both regulated and nonregulated services. However, the costs of other ocumon components of COS investment used for the provision of protocol processing/protocol conversion are not being allocated between regulated and ponregulated services as required by the Joint Cost Order. These scats are charged by BellSouth to their regulated activities. In our opinion BellSouth for 1991 under estimated its nonregulated shared common COS used for protocol processing by \$6 million because it did not properly allocate all of the common COE costs an common costs.

#### BellSouth's Protocol Processing System and Related FCC Rules

HellSouth provides protocol processing through its public panket switching network. BellSouth's packet switching network facilities consist primarily of three different Morthern Telepom DFM-100 switches -- Access Module (AM), Resource Module (RM), Network Module (NM). The .. switches are specialized, sophisticated and flexible stand-alone data occurrination computers that permit interconnection and system configurations as access switches, intermediate switches. or network switches.

The architecture of the eystem allow the same function to be duplicated in a module. The modules' functions are implemented by software running on processor elements in the three modules. While the modules hardware are basically identical, they use different software. Where there are common functions, the same software is used in the different modules.

In BellSouth's packet switching network the RM and NM function as intermediate and network switches, and the AM as an access switch. AM Access switches provide subscriber packet-mode and non-packet-mode subscriber data terminating equipment with aggess to public and private packet switch networks.

#### Audit Analyses

The eccess switch -- AM -- terminates and originates a subscriber's data transmission and its where protocols of packet and non-packet mode terminals are converted; if need be, for transmission through the packet switch network. The AM access switch, therefore, is where the communication enhancement-protocol processing -- takes place within a packet switching network and should be classified as shared common COE.

1 Amendment of Sections 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), Notice of Proposed Rulameking, CC Dooket No. 85-3297 FOC 85-397, Released August 16, 1985, Pares. 82 and 86.

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The access switch is shared common<sup>2</sup> COT because it supports both basic and enhanced services<sup>3</sup> on an intergrated basis. The mere fact that a specific component of the access switch is involved directly with the conversion of a protocol does not mean that all other components of the switch are not indirectly involved with protocol processing on an integrated basis. The access switch is a stand-alone data communications computer and all of its ocmponents are shared for the provision of both basic and enhanced services when both services are integrated within the same switch.

In Supplemental Notice Of Proposed Rule Making, CC Docket No. 85-2295, the Commission stated that "{p}rotocol processing is a generic term that denotes the use of a computer or computer-like device to process the protocol-related symbols appearing either in a subscriber's transmission or generated within the network for the purpose of intra-network data transport. Protocol processing takes place throughout the process of setting up and maintaining end-to-end communications." The Commission consider "protocol conversion to be a subset of protocol processing. Protocol conversion is the specific type of protocol processing that is employed to permit communications, between terminals or networks that observe disparate protocols." A general exemption provision was made for protocol processing during end-to-end communications when a data call is routed over the network and it does not invoke a net-protocol conversion between users, such protocol processing taken place is a basic service rather than an enhanced service.

The following is a brief architectural overview of the AM access switch. The AM access switch performs switching -- multiplexing -- and communications -- protocol conversion -- functions on an integrated basis. The AMs are built from a combination of standard circuit packs -- circuit boards -- and consists of a shelf assembly that contains the circuit packs. The circuit packs can be grouped into three categories for simplicity. The categories are called common, line dependent, and line terminating.

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<sup>2</sup> Amendment of Sections 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), CC Docket No. 85-229, FCC 85-397, Released Aluguet 16, 1985, Para. 62

<sup>3</sup> Amendment of Sections 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), Supplemental Notice of Proposed Rulemaking, CC Docket No. 85-229 Phase II, FCC 86-283, Released June 16, 19896, Para. 26 Footnote 33.

<sup>4</sup> Amendment of Sections 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), MOSO On Reconsideration, CC Docket No. 65-229 Phase II, FCC 88-10, Released Fabruary 18, 1988, Para. 26 Footnote 58.

<sup>5</sup> Amendment of Sections 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), FCC No. 86-253, Released June 16, 1986, Pers. 16.

Amendment of Sections 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), Report and Order, CC Docket No. 85-229, FOC 87-103, Released May 22, 1987, Para. 69.

Common circuit packs perform various basic controls of the AM switch whether or not there is protocol processing/conversion. The common trouts packs are called:

•	1
o Common Memory	(CH) 1
4 Power Converter	(PC)
a Alarm Interface	(11)
o Disk	••

o Peripheral Bus Extender (PBE)

The line dependent pircuit pack perform protocol conversion and allow subscriber and network access. The line dependent circuit pack is called:

> o Processing Element (PE)

The line termination directic pack provide an electrical and physical interface to the metwork for subscriber access lines, and natural links, trunks, disks. The line termination dirouit pack is called:

> o Peripheral Interface (FI)

The PE is the engine -- a single board microcomputer -- that drives the processes within the AM and the other modules. The processes are controlled by software that's downloaded into the Pf. Thus the PK can provide many different functions. The PI provide a physical interface between a PE and the specific access lines, network links , trunks, and disks which it is associated with. The PBE, which is a passive device, allow a PE to control more than one FI. The CM provide PE to PE domunications. The AI contain siarm sensing inputs for error detection and power failure, etc. which are monitored by a specific PE through the common memory. The Disk store the AM's software and service assignment parameters which are downloaded from the packet switching network administration system.

The AM also consist of components that are not categorised as circuit pack items. Such items are called cabinets, cooling units, shelf/assemblies, power supply, and shelf interconnect cards.

#### Allocation of Common Coats

BellSouth considers the Processor Element (PE) circuit packs of the AM to be shared occurred office investment that should be allocated between regulated and nonregulated activities. The PE component was selected by BellSouth because subscribers' data transmission access to the network is gained -- terminated, originated -- and protocol converted, if need be, for switching through the network. WellSouth does not believe that the remaining components of the AM are shared on a common basis in providing protocol processing service. Based on our audit analysis of the adulpment, related audit tests, and our review of industry-wide allocation practices, we disagrage with Religioush's position that only the PE is shared on a common basis for the provision of pretocol processing. processing service. Based on our audit analysis of the aquipment, related

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#### Audit Analyses

The AM as a unit provides access to the network for subscriber data transmission and not just the PE. All components of the AM are an integral part of the protocol processing function performed in an AM access switch. The AM access switch main objectives are to standardise the subscriber's data transmission for compatibility with the network and the destine subscriber's terminal, and to perform computer processing applications that interpret and react to a subscriber's protocol symbol. While we recognize that there are specific components involved in the protocol conversion process that are associated with a subscriber's line and thus are direct costs of protocol processing, the other components of the access switch perform functions that are an indirect cost of protocol processing.

Additionally, all of the AM's circuit packs are integrated within a single unit. The individual component (PE) cannot stand-alone or perform communications oriented tasks without the other components. All circuit packs in an AM configured as an access switch are either directly or indirectly involved on a common basis for the provision of protocol processing in a nonregulated and regulated packet switching environment. Also the cost of non-circuit pack components -- cabinets, frames, shelves, shelf intercomment cards -- are indirectly involved with providing protocol processing services. To separate out the circuit packs -- e.g. PE -- from the AM results in the misallocation of costs to regulated activities and is in conflict with the Commission's Joint Costs Order that requires a fully distributed cost method for assigning costs between cost causers regulated and nonregulated activities. Based on our sudit, BellSouth Telecommunications is not following the above criteris in allocating the shared common cost of providing protocol processing as a regulated and nonregulated activity.

We have estimated, based on the Automated Reporting and Management Information System—195 A and 8 Reports and the Datail Continuing Property Records (DOFR) that approximately 86 million was misallocated to the regulated protocol processing service for the 1991 forecast year. To seequately estimate the extent of the misallocation, we would like BellSouth to first, identify all shared common central office equipment of the access switch -- components including cabinets, frame, power supply, shelves/chassis, etc., used for subscriber's data access to the packet switching network. Second, develop the appropriate shared common central office equipment investment base using the AM access switch for 1991 and prior years (1988, 89, 90) instead of just the PE component. Third, justify and adjust all other cost pools -- e.g., maintenance -- that use the packet switching cost pool as a basis for apportionment accordingly. Fourth and finally, provide us with supporting schedules and source documentation of the results for each of the above to the Audits Branch for our review.

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01-04-93 10:50 AM FROM BST REG PLCY & PLNG

Please advise us in writing by January 29, 1993 if you agree with our finding and detail what corrective action you plan to take with respect to the finding. Should you disagree with our finding or have any additional facts you believe would alter our finding, you should advise us in writing by January 29, 1993, detailing your disagreement. If you have any other questions regarding the finding, please feel free to contact me or Sam Francis of my staff on (202) 632-7500.

Jose-Luis Rodrigues Chief, Audits Branch

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Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260-TL Audit Date: 08/31/93 Item No. 1-146 Page 1 of 1

Request: Provide all adjustments taking place as a result of the FCC Audit for 1992. Include a breakdown by states, account, source codes, cost pools, USOC's and etc. for amounts.

Response: Documents and correspondence detailing adjustments taking place as a result of the FCC Audit for 1992 will be sent in the overnight mail on September 15, 1993.

Date Provided: September 15, 1993

, }

File Code: 794.0100

May 11, 1993

To:

Bonnie Perez

From:

Gordon Williams

CC:

Terry Ledford Linda Ferguson Emily Jorgenson

Subject:

CSS Adjustments to Acct. 2212

To comply with the results of an FCC audit of Pulselink, please make the following CSS adjustments to Account 2212 FRC 377C, product 102, in April, 1993 business, as per the attached back-up. Additional Pulselink related adjustments (expenses, taxes, and depreciation) will be provided in another memo.

Please call me at (404) 529-6290 if you have any questions.

1)

State	Acct	CP		Debit Credi	t
Florida	2212 2212		Reg Reg	\$2,248,843 \$2,248,84	3

To correct and move investment from Common Pool to Pulselink per 1992 FCC audit finding. See attached detailed back-up.

2)

Florida	2212	03	NR	569,228
	2212	05	NR	53,627
	2212	03	Reg	622,855

Per ARMIS, CP03 should be "frozen" after the above adjustments are made, and the NR ratio is .3565.

To allocate \$'s in 1) to NR and proportionally allocate part of support pool to support of NR. See attached detailed back-up.

CSS Adjustments (Cont.).

Debit Credit

, i

3)

Georgia 2212 03 2212 04 Reg Reg 1,465,600 1,465,600

See explanation for 1).

4)

Georgia 2212 03 2212 05 2212 03 NR NR Reg 64,950 1,864

66.,814

Per ARMIS, CP03 should be "frozen" after the above adjustments are made, and the NR ratio is .1350.

See explanation for 2).

5)

North Carolina

2212 03 2212 04 Reg Reg 803,924

803,924

See explanation for 1).

6).

North Carolina

2212 03 2212 05 2212 03 NR NR Reg 30,386

1,738

32,124

Per ARMIS, CP03 should be "frozen" after the above adjustments are made, and the NR ratio is .1388.

See Explanation for 2).

# CSS Adjustments (Cont.).

7)				•	•	
•,				,	Debit	Credit
	AL	2212 2212	CP03 CP04	Reg Reg	526,791	526,791
	KY	2212 2212	CP03 CP04	Reg Reg	144,010	144,010
	LA	2212 2212	CP03 CP04	Reg Reg	455,409	455,409
	MS	2212 2212	CP03 CP04	Reg Reg	149,287	149,287
	SC	2212 2212	CP03 CP04	Reg Reg	519,684	519,684
	TN	2212 2212	CP03 CP04	Reg Reg	514,278	: 514,278

, i

See explanation for 1).

File Code: 794.0100

May 11, 1993

TO:

Bonnie Perez

FROM:

Gordon Williams

COPY TO:

Jim Byrd

Linda Ferguson Emily Jorgenson Terry Ledford

SUBJECT: CSS Adjustments

Would you please make the following CSS adjustments listed on the attached sheet in April, 1993 business. All 6XXX amounts should appear as <u>Debits</u> to Nonreg and <u>Credits</u> to Reg. Other Accounts (3XXX, 4XXX and 7XXX) should appear as <u>Credits</u> to Nonreg and <u>Debits</u> to Reg.

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Please call me at 404-529-6290 if you have any questions.

Attachments

	}				
_	, l _NC	<u>GA</u>	<u>sp</u>	UNT CP	ACCOU
L \$1	\$611	\$650	04	03	6212
2	152	588-		01	6531
	100	269		01	6532
	47	127		03	6533
:	157	754		02	6534
:	625	1,623		02	6535
4	4,096	13,063		12	6561
(163,	(14,161)	(50,123)	01	12	3100
(97,1	~(9,112)	(30,688)	12	. 12	4340
) (20,	) (3,495)	(3,984		01	7220
.) (4,0	) (291	(1,227		01	7230

To adjust relevant expense, tax and depreciation accounts for the effects of Account 2212 Pulselink adjustments made per the 1992 FCC audit finding. (See memo dated 5/11/93 detailing these adjustments.)

283

100

File Code 794.0100

September 1, 1993

To:

Bill Chappell

From:

Gordon Williams

CC:

Linda Ferguson'
Steve Mitchell
Lib Overton
Emily Jorgenson
Ed Martinez
Terry Ledford
Stephanie Pulliam

Subject: Pulselink Expense Adjustments

Attached is a quantification of the 1993 YTD expense adjustments required as a result of a 1992 FCC audit of Pulselink. The purpose of these adjustments was referred to in my memo of May 27, 1993 (copy attached).

, i

CSS system modifications to be implemented in July, 1993 business will appropriately reflect the above referenced expenses on a going-forward basis, thus no future adjustments should be necessary.

Should you have any questions on the above, please call me at (404) 529-6290.

Attachment

July CSS Adjustments

, j

ACCOUNT	CP	SP	G	a		NC		Fl
6212	03	04	\$3	25	\$	306	\$	6,298
6531	01		2	94		76		1,009
6532	01		1	.35		50		497
6533	03			64		24		337
6534	02		3	77		78		1,177
6535	02		8	12		313		4,023
6561	12		6,5	32	2,	048	2	4,150
7220	01		( 1,9	92)	(1,	748)	(1	(898,0
7230	01		( 6	14)	(	146)	(	2,008)

To adjust relevant expense, tax, and depreciation accounts for the period January 1, 1993 to June 30, 1993, for the effects of Account 2212 Pulselink adjustments made per the 1992 FCC audit finding. See memo dated 5/27/93, attached.

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Date and time 10/01/92 09:33:29 From: AB009BP --VU2

To: ABD09CM --VU2 Charles Morris .

From: Bonnie Perez Subject: BST R&D Cost Identification

Bonnie

(205) 988~1180

\*\*\* Forwarding note from ALLIN1 --DU4 09/30/92 16:34 \*\*\*

Date: 30 Sep 92 16:18:18 CDT From:

J. H. WHITSON < whitson\_j@alnp> Subject: BST R&D Cost Identification

BONNIE PEREZ <ABO09BP@VU2>

### INTEROFFICE MEMORANDUM

Date: 30-Sep-1992 03:43pm CDT

J. H. WHITSON From:

WHITSON\_J AT AL AT ALNP

Item No. 1-134

Attachment

Dept: Plng & Eng Support

Tel No: 205-977-2683

TO: PEREZ, B

CC: LEDFORD, TERRY L CC: LEDFORD, TERRY L
CC: KOEPER, JAMES C
CC: Linda N. Larson
CC: TATE, SALLY
CC: PATTERSON, GORDON
CC: BRYANT, PHIL
Subject: BST R&D Cost Identification

( AB009BP!VU2 @ BRIDGE ) ( AB009TL!VU2 @ BRIDGE ) ( KOEPER\_JC @ A1 @ GANP ) ( LARSON\_LN AT A1 AT ALNP ) ( TATE\_S @ A1 @ GANP )

( GSP1!UOS5 @ BRIDGE ) ( JPB5!UOS5 @ BRIDGE )

File Code: 710.0100

DATE: September 30, 1992

TO: B. H. Perez, Manager - Management Accounting

J. H. Whitson, Manager - NEPCOT FROM:

Active Internal (BST Science & Technology) SUBJECT:

Research & Development Projects

A Cost Allocation Manual (CAM) change was processed (September 1992 filing - changes effective in CSS 1/1/93) to revise the regulated/nonregulated apportionment basis for Account 6727 -Cost Pool "BellSouth Generic Research and Development".

It was decided that Internal R&D (BellSouth Science and Technology) costs would be more equitably allocated between regulated/nonregulated, based on an annual analysis of internal R&D projects. This methodology is similar to the process currently used to allocate contracted R&D (Bellcore).

Analysis of the 1992 internal R&D projects was accomplished as a joint effort with assistance and input from Sally Tate, BST Science & Technology Budget Coordinator and Doug Bergdoll and Susan Nelson, Network Budget group. Active projects were identified along with their allocated headcounts. The headcounts were converted into budget dollars using total management year-to-date actuals. A detailed description of each project was reviewed to determine the purpose of the project and categorized as either switched, non-switched, combined, general assignment or generic.

Attached is a summary of the active projects for 1992 and the associated budget dollars. Also on the attachment is the categorization of each project for 1992.

The work papers used in the research will be on file at NEPCOT and available for review upon request.

Please refer any questions on this subject to Linda Larson at (205)977-2684.

### Attachment

cc: Phil Bryant
Gordon Patterson
Sally Tate
Linda Larson
Jim Koeper
Terry Ledford

# Active Internal R&D Projects

### 1992

(b) Grouping	(c) (000) Budget`\$	(d) % Non Reg	(e) Non Reg \$
<b>N</b> 3.20 3.3	<b>(</b> ) 120.0 7	***	Iswitches &
GA G	1,080.0	GA = Gen	DEPAL APPLICATION
GA	<b>360.</b> 0	G = Gen	16116
G (	<u>6</u> ) 180.0		
GA .	360.0		
, N	(A) 120.0		
GA (	120.0		
	Grouping  GA  GA  GA  GA  GA  GA	Grouping (000) Budget \$  N 120.0  GA 1,080.0  GA 360.0  GA 180.0  GA 360.0  GA 180.0  GA 120.0	Grouping Budget \$ % Non Reg  N

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NPB2092-SP04	GA	(B)	2,546.0
NPB0292-WPA	G		340.0
NPB0292-WPB	G	(C)	136.0
NPB0192-WPA	GA	(B) *	532.0
NPB0192-SP14	GA	(B)	456.0
		U	
	TOTAL	(f)	6,350.0

- (a) = active internal projects in 1992
- (b) = S Switched, direct support of switched facilities for customer data and voice.
  - N Non-switched, direct support of transport facilities for customer data and voice.
  - C Combined Switched and Non-switched, direct support of combined switched and transport facilities for customer data and voice.
  - GA General Application, supports both network (switched and non-switched) and computer facilities.
  - G Generic, futuristic, no specific application.
- (c) = budgeted dollars
- (d) = Provided by Comptrollers based on elements within the unique groupings listed in column (b).
- (e) = (Budget \$) (c) times (% Non Reg) (d) equals dollars of each project assigned to non-regulated activity.
- (f) = Total Non-reg \$ (e) divided by Total Budget \$ (c) equals the Non-reg ratio to apply to the cost pool monthly.

$$\angle B = 240$$
  
 $\angle B = 5,454$   
 $\angle C = 656$ 

Date and time 07/02/92 16:56:13/ From: ALLIN1 -- DU4

Date: 02 Jul 92 16:58:34 CDT

J. H. WHITSON <whitson\_j@alnp> Subject: BELCORE R&D NONREGULATED COST Charles Morris <AB009CM@VU2>

INTEROFFICE MEMORANDUM

Date: 02-Jul-1992 04:48pm CDT From:

J. H. WHITSON

WHITSON\_J AT AL AT ALMP

Dept: Plng & Eng Support

( AB009BP!VU2 @ BRIDGE )

( JPB5!UOS5 @ BRIDGE )

( GSP1!UOS5 @ BRIDGE )

( AB009TL!VU2 @ BRIDGE )

( KOEPER\_JC @ A1 @ GANP )

( LARSON\_LN AT A1 AT ALNP )

Tel No: 205-977-2683

TO: PEREZ, B

AB009CM!VU2 @ BRIDGE cc:

Linda N. Larson cc: CC: BRYANT, PHIL CC: PATTERSON, GORDON CC: LEDFORD, TERRY L

CC: KOEPER, JAMES C Subject: BELCORE R&D NONREGULATED COST

File Code: 710.0100

DATE: July 1, 1992

TO: B. H. Perez, Manager - Management Accounting

FROM: J. H. Whitson, Manager - NEPCOT

SUBJECT: Active Bellcore Network R & D Projects

The BellSouth Cost Allocation Manual states that the Account 6727 contracted research and development cost pool, should be allocated to regulated/nonregulated based upon an annual analysis of the contracted R & D projects in that cost pool.

Analysis of the 1992 projects was accomplished as a joint effort with assistance and input from Brenda Gibson, Comptrollers and Pat Eubank, Bellcore Budget Coordinator - Network. Active projects in Account 6727 were identified and the budgeted dollars as of December, 1991, for those projects were obtained. A detailed description of each active project was reviewed to determine the purpose of the project and categorized as either switched, non-switched, combined, general application or generic.

Attached is a summary of the active projects for 1992 and the associated budget dollars. Also on the attachment is the categorization of each project for both 1991 and 1992.

The work papers used in the research will be on file at NEPCOT and available for review upon request.

Please refer any questions on this subject to Linda Larson at (205)

### Attachment

cc: Gordon Patterson Phil Bryant Jim Koeper Terry Ledford

# Active Bellcore Network R & D Projects

1992

(a)	(t GROUI		(c) (000)	(d)	(e)
PROJECT	191	192	BUDGET \$	% NON REQ	NON REG \$
021411	, c	С	917.8	Jip**	
0231A4	S	s o	54.8		
023134	S	s	301.1		
1R1011	С	С	168.2		
1R1024	С	С	694.9		
1R1028	Ν.	N	67.7*		
1R1111	С	C .	825.5		
1R2112	GA	GA	1,336.8		
1R3011	GA	GA	1,018.3		
1R4111	GA	GA	1,913.8		
1R501N	GA	GA	699.2		
1R502X	G	G	191.7	·	
1W0111	N	N	212.3 .		
1W0211	N	N	941.8		
1W1511	N	N	1,061.7		
1W3012	С	С	566.1		

142011	G	GA	315.1.
142012	Ċ.	С	160.9
124430	GA	GA	499.7
* 100%	Non-reg		- 1 -

(a)	() GROUI	o) PTNG	(c) (000)	(d)	(e)
PROJECT	191	192	BUDGET \$	% NON REQ	NON REG \$
2R1070	-	C	89.1		
2R1111	-	С	447.2		
2R1122		c	71.3		
2R1210	-	С	182.7	g tipe of	
2W4620	-	G	52.1		
2Y1122	-	G	32.0		
224101	_	G	636.3		·
2243DN	-	N	152.3		
22441W	- `	N	316.0		
421203	GA	GA	1,268.5		
421301	N	N	918.5	•	•
421302	N	N	789.2		
421303	С	С	742.0		
421306	N	И	1,116.3		
422241	N	N	432.9		
423228	N	С	189.2		
423334	N	Ņ	132.0		
424322	GA	GA	139.9		

424516	N	N	186.0
524475	И	S	208.8
621204	G	G	807.6
62130 <u>6</u>	N	N	889.8

- 2 -

(a)	(d)		(c)	(d)	(e)
PROJECT	GROUPI	'92	(000) BUDGET \$	% NON REQ	NON REG \$
621307	И	N	880.0		
621405	С	С	1,040.0		,
621406	С	GA	1,107.6	·	
621408	GA	GA	924.5		
621409	s	s 💮	975.7		
721205	GA	G	643.0		
721206	GA	G	482.8		•
721207	GA	GA	1,140.1	·	
722603	C	С	58.6		·
724429	С	С	211.2	·	C.
821101	G	G	1,482.0		<b>1</b>
821102	G	G	1,440.1		
821103	G	G	1,055.2		-
821104	G	G	1,175.6		
824463	С	С	224.9		
	TOTAL	(f)	34,588.4	•	

(a) = Active Network projects in 1992

(b) = S - Switched, direct support of switched facilities for customer data and voice.

49-15/1-1

F01K01W 014806

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- ${\tt N}$  Non-switched, direct support of transport facilities for customer data and voice.
- C Combined Switched and Non-switched, direct support of combined switched and transport facilities for customer data and voice.

- 3 -

- GA General Application, supports both network (switched and non-switched) and computer facilities.
- G Generic, futuristic, no specific application.
- (c) = budgeted dollars as of 12/91.

[ 1

- (d) = Provided by Comptrollers based on elements within the unique groupings listed in column (b).
- (f) = Total Non reg \$ (e) divided by Total Budget \$ (c) equals the Non reg ratio to apply to the cost pool monthly.

- 4 -

Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260-TL Audit Date: 08/16/93 Item No. 1-134 Page 1 of 1

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Request: Provide the backup by project by dollars on Allocation Factor Calculation on F01K01W (007384, 007385) as discussed in out 8/12/93 interview with John Mast. Include the project numbers or names, dollars and categories.

Response: Attached is the backup for the 1992 category classification of Bellcore R&D projects and Science & Technology work programs.

Date Provided: August 18, 1993

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BELLSOUTH TELECOMMUNICATIONS FINANCIAL SYSTEMS DOCUMENTATION APPLICATION CSS/PPS USER GUIDE CSS INVESTMENT AND EXPENSE APPORTIONMENT AB01: PART 9: SECTION 20t CORPORATE OPERATIONS EXPENSE 9.08.1 CP05 is identified by function codes via the TACCTFC taple. 9.08.2 CP05 is assigned to regulated/nonregulated based on the product reported on CISSP detail. ACCOUNT 6727 - RESEARCH AND DEVELOPMENT Account 6727 contains of costs in making a planned search or critical investigation aimed at discovery of new knowledge. Other costs include translating research 10,01 finds into "plans. 10.02 The following inputs are used in this account: CIESP TACCTEC TDACAT THANAMT Account 6727 consists of the following cost pools: 10.03 CP99 Leased to Others CP01 Contracted R&D **}**— CP02 Direct Regulated/Nonregulated C203 BellSouth Generic R&D 10.04.1 CP01 contains the following SPFCs: 561788 561V68 10.04.2 CP01 is allocated to regulated/nonregulated based on the TDACAT nonregulated ratio. This ratio is developed by the Comptrollers organization and reflects only research and development billing from Bellcore. Whot 10.05.1 CP02 is identified by function code via the TACCTFC table. The following function codes are included:-561WXX (except for 561W88) 10.05.2 CP02 is assigned to regulated/nonregulated based on the product reported on CISSP detail. CP01 contains the following function codes identified by 10.06.1 TACCTFC: 24XX. 56E8 56EQ -56ER 561W88

JUL 2 1 1992

9.20.12

NOTICE: NOT FOR USE OR DISCLOSURE OUTSIDE BRILSOUTH EXCEPT UNDER WRITTEN AGREEMENT

MO1599H 0000308

BELLSOUTH TELECOMMUNICATIONS

FINANCIAL SYSTEMS DOCUMENTATION

APPLICATION PART

SECTION

ABO1: CSS/PPS USER GUIDE

9: CSS INVESTMENT AND EXPENSE APPORTIONMENT

20: CORPORATE OPERATIONS EXPENSE

11.07.2 CP04 is allocated to ragulated/nonregulated based on the CGA01.

11.08.1 CP05 contains the following:

SRC 6728.8000

SPFCs 55E8 561Z 5612-04 5612-50

5612 0 5612-60 5612-70 5614

5616XX

11.08.2 CPO5 is directly assigned to regulated/nonregulated.

### ACCOUNT 6790 - PROVISION FOR UNCOLLECTIBLE NOTES RECEIVABLE

- 12.01 Account 6790 contains charges to offset amounts currently cradited to Account 1200.
- 12.02 The following inputs are used for this account:
  CISSP
  THANAMT
- 12.03 Account 6790 consists of the following cost pools:

  CP01 Provision for Uncollectible Notes Receivable
- 12.04.1 CP01 contains the entire account.
- 12.04.2 CP01 is directly assigned to regulated/nonregulated.

JUL 2 1 1992

9,20,14

NOTICE: NOT FOR USE OR DISCLOSURE CUTSIDE BELLSOUTH EXCEPT UNDER WRITTEN AGREEMENT

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	\$55°46	200-001	100.001	165.46	\$12.56	<b>116.8</b>	\$45'96	#81.8 #18.7%	\$00.0 \$27.1	101.02 120.0	\$26"91	\$91.1	A101 01 40 £
00'108'158'+62	9810921060119	00.25	(ZZ'C+S'99)	E9:5+0'128'8	19,138,+12,7	31.38+,316,2	1 12.878,242,1	\$18.08	100.001	100.6*	\$8**! \$8**!	<b>\$69</b> .96	Z REG/TOTAL T HON-REG
05 705 135 105					<del></del>	j	<b>3</b>						
	92.513,113,01	43.00	(22,212,22)	81.217,000,1	62,237,CSE,1			86.500,EEL,T	[ 20.ES0,250,		08.426,288,8	2 E8.212,007 G	n
	13,133,360,3		00.0	82.0C4,0C3	59, 481, 124, 1	31,130,050,5			)(3				
	5,448,692.20		00.0	ZB'962'++C	96,828,529	73.501,035,1		07.882,714,1 60.882,014,2		33.08+ 74.279,1	67.613,616 913,613,79	229,922.48	DECEMBER
	84.521,185,2		00.0 00.0	05.853,173 02.420,485,1	88.878,862 88.804,662	73.501,161,1		26.880,632,1		40. S32, 1	64.576,451,1	#6.##8,18 18.0#5,68	HOUENBER OCTOBER
	28.728,401,8		00.0	SZ'8Z0'8ZS	12. FBS, 242	06,0C1,83Z,1		EC. 1778,000, 1	1.	21.012	80. 202, 344	30.027,48	\$38N31432
	\$1.162,230,1		00.0	31.CSE, 20T	569,794,34	1,230,684.14		80.966,710,1		1,201,47	10.365,812	60,312.74	BUGUST
	88"150"6+1"+		00.0	34'190'5ZE	11.486,882	80.838,761,1		091806104911	52"+1B"58	121.00	15"+51"996	68.450,84	YJULY
	17.022,024,4		00.0	00.456,648	0810251019	10.070,081,1		23.061,195,1		143.18	80.66+,485	\$81186161	3800
	35.66T, 83C, A		00.0	28, 134, 832	191,288,64	28.121.621.1		1,422,755.44		71,001	88.8TZ,0AC	\$7.605,0+	3903
	C2.0Z6,818,6		00.0	CC. 360, £12	CC, 233, 004	C3. 173, 885, 1		87.817,08+,1 1,019,246.05		87,456	14.182,281	49.589,CS	APRIL
	08.706,817,6		00.0	10,262,227	C1.C44,522	07'696'00'1		E6.024,530,1		\$1.871 CS.085,S	86.410,481 14.130,632	60.070,81 96.860,86	WARCH
	JA101	JAY01	GEGULATED REGULATED	CP10 TOTAL	TOTAL	TO93 JATET	304.2 JATOT	1,360,224,88		333.16	02.CC1,171	28,735,7	JANUARY FEBRUARY
	JA101	6643	Cb10-D	VIGN	C608			. 2003 Total	JATOT	JATOT	JATOT	JA101	
12,759,414,08	#8.837,2#€,E	00.0	00.0	15.581,084	91872,05	17,111,694	80.182,02		9040	Coco	CPOZ	1040	HTWOR
00 117 002 01								21.573,672,1	00.0	18'516'+	13, 113, 151	\$8,127,15	
	+0.100,201	00.0	90.0	06.07Z,88	21,751,68	60.253, AC	05.805,8	61'068'561	00.0	56'590'I	Z5.480,07	£#'829'L	X38N3030
	19.920, ***	00.0		52.215,24	183,744,15	72, <b>618, 5</b> 3	85,889,28	60,818,001	00.0	£8:89Z	1,640.25	£1.157,1	MOVEMBER
	292,050,35	00.0		14,454,81	2,906,24	62,153,44	8,366,32	58,878,021	00.0	14.828	24,657,02	8Z'454'Z	9C108ER
	09.718,735	00.0		76'511'59	19,198,72	68, 101, 0#	18.132,0	09.875,501 58.151,821	00,0 00,0	28.745	(01'59)	\$6'988'Z	938N3T938
	18.141,255	00.0		07.008,TC	C8.87S,2C	89'451'94 14'615'66	26.028,1	90 'SOC'ENT	00.0	67.82 17.862	86,456,45 9,456,98	1,759.42	MICUST
	240,218,42 240,218,42	00.0 00.0		++,138,85 30,+51,12	01,149.30 03,449.30	02, <u>521, 75</u>	2, 228, £	127,224.35	00.0	3C,2T	1,401.28	64'346'1 66'56 <del>4</del>	3MU. 7JU.
	46.110,252 24.915.045	0010		AA 130 OF	ZS'965'S+	75,530,46	04.000,2	117,928,37	00.0	LS'S	08'990'T	72.082 20.30A	YAN
	10 SIT SET	00.0		0Z.0CZ,8S	28.82+, #£	10.TE3,EE	16.873,7	EE. 859, 78	00.0	0E,E3+	77,653,77	10.182	TIRAN
	219,024,73	00.0		28'293'43	24,073,69	68,819,50	7,814.37	159128318	00.0	₩:510°1	2,111,63	1,064.20	MARCH
	14.920,381			78.275,87	61,636,CS	04.175.2E	89114611	11, 455, 78	00.0	12,28	251199	81.582	<b>LEBKNUK</b> A
	98-6201982	00.0		CE.221,82	18,476,15	SS.130,8S	37,527,1	9919981591	00.0	162.74	16,604	0Z:20Z	16/41/667
HOM-REC	HON-REC	NDM-KE¢	GEGULATED	NON-KE¢	NOM-KEC	HOM-REC	MON-REC	NON-KEC	MOK-KE¢	HOM-KEE	MOK-REC	MOM-REC	
JA101	JATOT	CF99	0-0143	0143	6043	7043	9043	\$040	CEO¢	C603	CROZ	1040	HINON
ZZ'18C'Z50'ZZZ	20'+6+'++0'85	G01574	(22.543,83)	71'099'06E'R	32,002,982,7	5+ +/17, S28, #	1 01.180,884,1	•Z*0€£*655*ST	20.020,270,1	65.268,4	61.646,427,8	16.757,873 —	
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	52.117,211,01	43.00 1	(55,543,22)	82.444,518,1				20,776,377,65		81 606	72.32E,211,E		DECEMBER
	16,048,528,2			CC'SIS' 185	06,021,725,1	1 265, 181, 58		19,218,385,1		ET.11S	AS.CTE, LLC	07,634,13	A38N3VON
	\$8'199'951'5			SE'ZVB'SZE	17,028,113	90.271,425,1		12,212,545.10		03.23S T2.2ET	81.735,3++ 70.863,601,1		8380100
	38.964,546,6 38.964,546,6			08.128,653 82.808,815,1	68°C+5'5ES 60°T09'+0S	85.466,841,1 85.466,815,1		84.157,219	53.363,37	37,103 na 225	60.858,802	ZT*C96*18 ZC*C55*85	AUGUST September
	4,842,653.20			61.488,002	80,274,112	64.715,CE5,1		1,397,003,44		15.10	88.183,++6	04,873,44	YJUL
	00.37C,2S1,+			21.284,133	10,218,812	+9.152,591,1		1,270,506.30		08.13	08.160,685	98'588'81	340.
	A6.285,752,C			11.733,100	S42,788.25	17,208,531,1		1, 304, 827, 07		09.45	61.255,655	39,216,15	AUM
	LZ"SC+"552"+	13.00		08.669,218	86,164,372	16.554,841,1	98°C+S'S01	ST 609 1EP	70, 265, 25	81 191	19,159,287	03'560'EZ	TERM
	C2.ATT, TA1.4			240,868,012	26.112.73C	96'205'921'1		1,334,156.60		59° +92° J	87,847,032	93 125 25	MURCH
	37, 138, SEA, E			34.818,484	12.269,315	CS, 795, 23		2Z'961'596 7Z'961'320'53	04,588,13	E6.06	98, SSB, CB1	18, 171, 81	FEBRUARY
43 LU30434	3,432,278,24		42 U 2047N	80.358,163	261,068,32	22,106,216	78,974.13	CECULATED SE	REGULATED 46,081,28	170.42	65,625,071	59.530,7	YAHIMA
G3TAJU938	03TAJU232	CP99 Regulated	0316JU039	03TAJU939	OSTAJUSEN	KECULATED	2043 Regulated	5040	\$0d3	C603	CPOZ Regulated	GECULATED	111101
ÇH JATÜT	FL08110A T0TAL	<i>∞~171740</i>	CP10-0	<b>2004⊃</b> A 0193	8043		Sohu	2422		TA,		1040	HTHOM
Çi.	A4100 ID	4	c	Sensen	Corp.	هواسا	Custone Resorted	38/10A	الملت		אמן האם א	~~~	
		h.v. 4		1		Cust	Custone	19مسة	Cares		300	2621 ,2 Tauauk	NORKPAPER II
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			John ()	'.	7/	Ø.	11/4.	724/a	7,00	a f	(A)(A)	K, 4ELCH	: ADT LOUA
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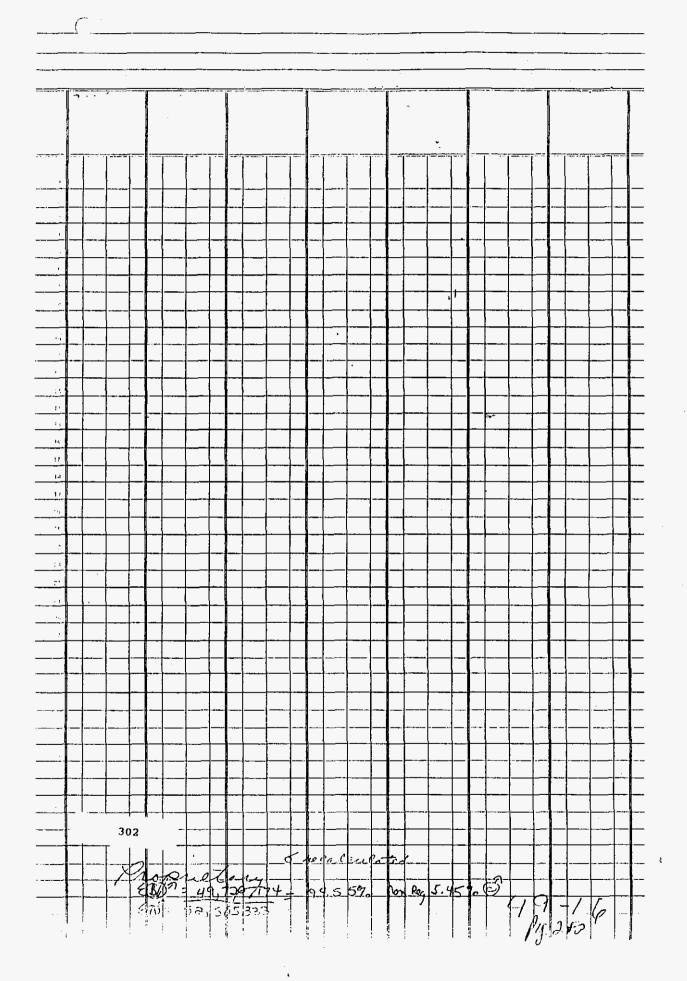
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### PERCENT HON-RES MONTHLY

HTHOK	CP01	CP02	CPOO	CP04	CP05	CP05	CP07	CP08	CPIO	CP10-D	CP93	TOTAL
	NON-REG	HON-REG	MON-REG	MON-REG	HOM-REG	NON-REG	HON-REG	NON-REG	NOH-REG	REGULATED	HON-REG	HON-RES
JANUARY	2.921	0.243	48.851	0.003	12.191	2.227	2.902	10.73	7.591	o.⊃oz	0.00%	7.63%
FERRUARY	3.11%	0.36%	48.391	0.007	9.152	2,293	2.74%	5.921	5.147	0.00\$	0.50%	5.142
HARCH	2.731	9.417	44.531	0.60%	3.55%	2.467	2.915	6.154	5.327	0.007	0.002	5.02
APRIL	189-188 2.40T	0.211	50,107	0.007_	8.507	<u>3.31                                   </u>	2.35%	<u>3</u> _547_1		<u>9.00x</u>	0,007	4.29%
HAY	2.+7%	0.315	45.432	200.0	8.291	+.52%	2.347	_7.751	5.05	9.002	100.0	\$.351
JUNE	1.584	0.45	52.544	0.002	3.10%	3.682	3.027	5.674	5.507	0.602	0.001	5.50%
JULY	2.931	2.221	49.357	0.007	9.20	1.321	2.654	5.207	5.144	0.002	0.00%	5.142
AUGUST	2.92%	1.823	49.311	0.001	10.05%	1.30%	3.87	6.532	5.632	0.00%	0.00	5.637
SEPTEMBER	3.371	-0.013	48.241	0.002	3.15%	2.972	3.18	4.954	5.07	0.092	0.001	5.072
OCTOBER	3,531	1.847	52.912	0.007	9.642	7.102	3.19%	6.981	5.361	3.002	0.00:	5.367
HOVEMBER	2.80%	0.52%	55.947	0.001	3.242	5.58z	3.15%	13.351	7.294	9.00%	0.002	7.281
DECEMBER	3.323	2.20	53.963	0.002	7.93\$	2.432	3.12%	6.732	4.642	3.00z	0.007	4.671
	3.111	1.48	50.161	100.0	9.197	3.46‡	3.03	7.791	5.417	0.002	0.902	5,452

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APPLICATION ABO1: CSS/PPS USER GUIDE
PART 9: CSS INVESTMENT AND EXPENSE APPORTIONMENT
SECTION 20: CORPORATE OPERATIONS EXPENSE

- 5.05 CP02 is not used.
- 5.06.1 CP03 contains the following JFCs:

0310 033X

- 5.06.2 CP03 is allocated to regulated/nonregulated based on CMA01.
- 5.07.1 CP04 contains the following:

FCs 030X 0311 0312 037X 106X 03TA 03TE 0318

SPFCs 56EA 56EB 56E9

5.07.2 CP04 is allocated to regulated/nonregulated based on CGA01.

### ACCOUNT 6723 - HUMAN RESOURCES

- 6.01 Account 6723 contains cost of performing personnel administration activities.
- 6.02 The following inputs are used in this account:

CISSP TMANAMT

6.03 Account 6723 consists of the following cost pools:

CP99 Leased to Others.
CP01 Human Resources

- 6.04.1 CP01 contains the entire account.
- 6.04.2 CP01 is allocated to regulated/nonregulated based on CSW16.

## ACCOUNT 6724 - INFORMATION MANAGEMENT

7.01 Account 6724 contains costs incurred in planning, developing, testing, implementing and maintaining data bases and applications systems for general purpose computers.

9.20.5

1.0

APPLICATION AB01: CSS/PPS USER GUIDE
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SECTION 20: CORPORATE OPERATIONS EXPENSE

7.02 The following inputs are used in this account:

CISSP TACCTFC TMANAMT 3 49-16

7.03 Account 6724 consists of the following cost pools:

CP99	Leased to Others
CP01	General Support Related
CP02	COE Related
CP03	Terminal Equipment Related
CP04	Cable and Wire Related
CP05	Plant Nonspecific Related
CP06	Customer Related Marketing
CP07	Customer Related Other
CP08	Corporate Related
CP09	Not Used
CP10	General Costs

7.04.1 CP01 contains the following FCs:

57A6

- 7.04.2 CP01 is allocated to regulated/nonregulated based on Accounts 6112 through 6123.
- 7.05.1 CP02 contains the following FCs:

57AD

- 7.05.2 CP02 is allocated to regulated/nonregulated based on Accounts 6211 through 6232.
- 7.06.1 CP03 contains the following FCs:

57AL

- 7.06.2 CP03 is allocated to regulated/nonregulated based on Accounts Accounts 63XX.
- 7.07.1 CP04 contains the following FCs:

57AT

7.07.2 CP04 is allocated to regulated/nonregulated based on Accounts 6411 through 6441.

9.20.6

JAN 1 6 1992

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APPLICATION AB01: CSS/PPS USER GUIDE

PART 9: CSS INVESTMENT AND EXPENSE APPORTIONMENT

SECTION 20: CORPORATE OPERATIONS EXPENSE

7.08.1 CP05 contains the following FCs:

57BD 57BL 57B6 /

- 7.08.2 CP05 is allocated to regulated/nonregulated based on Accounts 6511, 6512 CP02, 6530, 6531 CP01, and 6534 of the prior month.
- 7.09.1 CP06 contains the following FCs:

57BT

- 7.09.2 CP06 is allocated to regulated/nonregulated based on Accounts 6611 through 6613, excluding Account 6612 CP01.
- 7.10.1 CP07 contains the following FCs:

57C6

- 7.10.2 CP07 is allocated to regulated/nonregulated based on Accounts 6621 through 6623.
- 7.11.1 CP08 contains the following FCs:

57CD

- 7.11.2 CP08 is assigned to regulated/nonregulated based on Accounts 67XX of the prior month excluding Account 6724.
- 7.12.1 CP10 contains the following FCs:

155A	155E	1550	1551	1558	1559
156A	1560	1569	5A3M	55Cl	56C9
1552	156E	156R	56 <b>EH</b>	56EF	56EG
1561	56ES	5525	57CL		

7.12.2 CP10 is allocated to regulated/nonregulated based on Account 6724 CP01 through CP08.

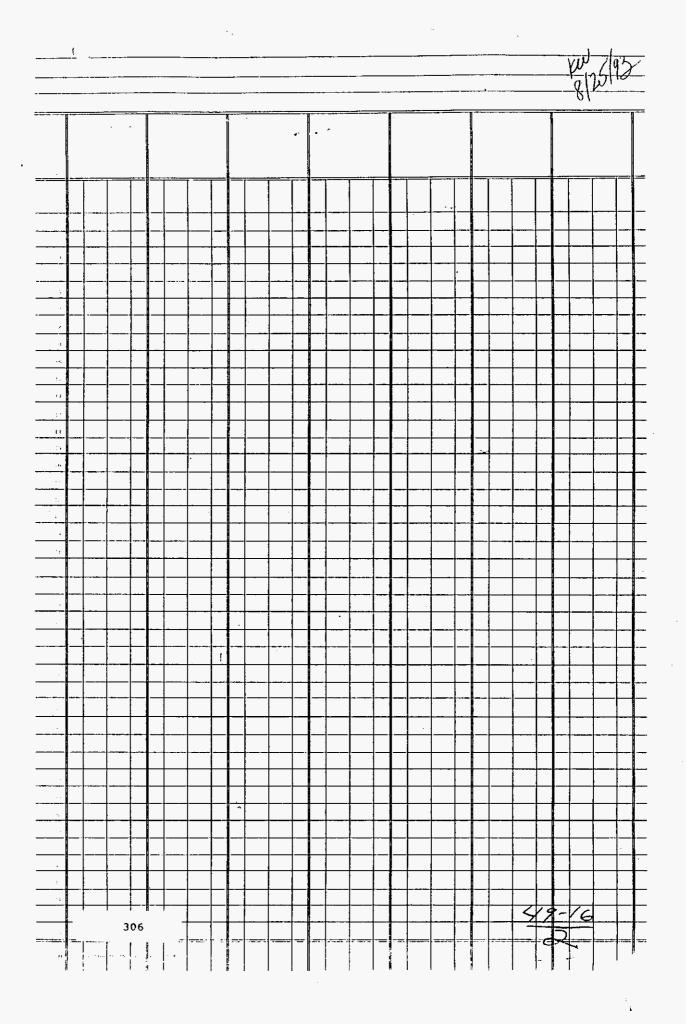
### ACCOUNT 6725 - LEGAL

8.01 Account 6725 costs include the pay and expenses of employees responsible for providing legal services. Legal services include coordinating and conducting litigation, providing guidance on regulatory and labor matters, preparing, reviewing and filing patents and contracts, interpreting legislation, and miscellaneous services such as court costs, filing fees, cost of outside council, depositions, transcripts and witnesses.

9.20.7

JAN 1 6 1992

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TITLE:

ANALYSIS OF 6000 ACCOUNTS

TEST YEAR:

AUDITOR:

DATE:

DECEMBER 31, 1992 K. WELCH AUGUST 17, 1993

WORKPAPER #

W-1707 - 17 - 17 - 17 - 17 - 17 - 17 - 17					J. 613	
•	MR				W/O LID	. )
ACCOUNT	REG	NON-REG	TOTAL	I NON REG I	TO TOTAL GROUP	to all ocate
noter vehicle - 6112	7,069,054.35	509,354.05	7,578,408.40	6.721	8.167. 4.461	- relocation
aircraft 5113	1,697,232.37	113,423.00	1,810,655.37	6.264	1.45%1.072	C. APON NEA
special Purp Velos 6114	555.27	38.06	593.33	6.414	0.001	> Sudy Exposite
St. and the Sc. a SIIS	332,731.54	29,530.33	362,261.87	8.151	39 0.212	to allocate Support Reloted Expanses
Haroge work Egun 6115	•	•	•	6.051	-78 0.43¥	( reco
Other Work & 6116	678,549.34	43,687.06	722,236.40	2.55%	72.70 39.761	
Land & CRESTERP - 6121	65,833,775.55	1,720,739.52	67,554,515.07		2.35 1.292	)
Furniture artural 6122	2,049,471.52	138,214.85	2,187,686.37	6.321	13.78 7.482	Excludes 6124-Why?
Efficie Egrip 248 6123	12,455,104.93	253,848,81	12,708,953.74			and the state of t
Mon August VOLLY	72,754,361.85	4,215,506.27	76,969,868.12	5.482	45.30	is allocated some on
Completers	100 020 000 30	7 004 044 05			100 000	6724
m/0.015A	162,870,835.72 GC, 116,471-87		169,895,178.67 <b>92,</b> 925,310.55	4.13% 3.02	100,001	
Digital Electronic con	=	37,808,832.78	•		41 474	y used to allocate
1 Open Flaction Office	64,620,168.97	1,472,350.15	66,092,519.12	2.231	41.472	
	34,810,458.51	99.37	34,810,557.88	0.00	21.842	> COE Retained
Operation Signatures 6220	3,139,564.69		3,139,564.69	0.001	1.971	100
Radio Systematy 5231	720,463,58		720,463.58	0.003	0.452	$A_{ij}$
Curano Eg Exp 6232	54,626,989.41		54,626,989.41	0.001	34.272	The make your body
<b>9</b>						J. J
	157,917,645.16	1,472,449.52	159,390,094.68	0.921	100.002	
54 0000 5 50 0000	.50 00. 00					
St, apparatus Exp 5311	153,231.92		153,231.92	0.001	0.192	C 0.4
Lang Bax Exp 6341	1,137,039.34	1,824.33	1,138,863.67	0.164	1.402	E Juformation
Public Tel. Termal 8 6351	15,966,954.54		15,966,954.54	0.002	19.591	Information Oriented
Other Terrus 18. 6362	23,243,570.86	41,004,513.30	64,249,084.16	63.82	78.831	- based on MTR
المراجع المتحدد						
, ,	40,500,796.66	41,006,337.63	81,507,134.29	50.31	100.001	
0.1.6.3						_
Pole Ex52 - 6411	7,048,181.24		7,046,181.24	0.002	2.882	
anielable 6421	80,327,576.03		80,327,576.03	0.002	32.85%	/ 1575.4
undergrand Calife 6422	18,395,205.72		18,395,205.72	0.00%	7.521	a near Reputation
	134,627,544.77		134,627,544.77	0.00%	55.05	Cable & whire
Submarine Calle 6424	84,360.30		84,360.30	0.002	0.03%	Related
Patra build in Nerwork 6426	1,447,956.29		1,447,956.29	0.00%	0.59%	Relation
Christ Cally 6431	72,692.42		72,692.42	0.00%	0.032	
Conduit System Eyp 6441	2,550,348.34		2,550,348.34	0.001	1.047	)
9						Plant oted
	244,551,865.11	0.00	244,551,865.11	0.00%	100.00	. Carolina
۵			•			J Com Sp
Provision Exp 6512	3,473,597.18	192,553.36	3,666,150.54	5.25	0.371	الأسا كدام
و ۱۹	10,292,076.80	51,652.50	10,343,729.30	0.50	1.052	مان
Network admin 6532	27,559,586.20		28,376,753.33	2.88%	2.891	1 100
Tooling Trace 6533	62,462,062.95	18,607,489.68	81,069,552.63	22.952	8.261	) cut off CP05
Plant up. Odmir 6534	86,700,923.82	9,888,139.06	96,589,062.88	10.242	9.841	1 cutoff (100
Engineering En > V 6535	75,300,551.77	416,200.33	75,716,752.10	0.552	7.722	00
- ರೂದರ್ಜಿ <sup>೧</sup> ೯/೨ , 6540	12,801,651.72		12,801,651.72	0.007	1.302	
wallocator ESE3	560,917,804.47		666,068,043.73	0.77%	67.872	
VALLEY EXA TOWALLY	2,747,692.93	166,627.64	2,914,320.57	5.72%	0.391	
VALUES EXP Tangelie						•
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•						6 kg/kg
ant. Exporter 6565	3,670,747.23	151,959.68	3,822,706.91	3.98%	0.391	Sycatory
	945,926,695.07	35,442,028.64	981,368,723.71	3.612	100.00%	and of the street of the stree
reduct mgms 5611 Product advertise 6613	18,598,775.58 15,615,196.26	673,281.43 1,107,057.44	19,272,057.01 16,722,253.70	3.49 <del>1</del> 6.62 <b>1</b>	53.54% 46.46%	Com to be the state of
Produce	34,213,971.84	1,780,338.87	35,994,310.71	4.952	100.002	Poll of Recated
Solution - 6612	61,777,824.33	1,471,260.14	63,249,084.47	2.332	19,287-20	Premise Sales Pool
Il Completion Saw. 6621	20,350,172.35	6.47	, ,	0.004	6.23t } 17.76t }	a sa Alatal Atlan
H Services 6622 Ousterner Server V 5623	58,039,042.46 238,781,818.14	9,569,465.87	58,039,042.46 248,351,284.01	0.001 3.851	76.012	Customer Related Other
	317,171,032.95	9,569,472.34	326,740,505.29	2.931	100.001	•
Executive V 6711	10,034,029,72	600,039.17	10,634,068.89	5.647	4.16t )	e verification of the control of the
Dlanning 6712	4,426,546.86	235,932.37	4,562,479.23	5.06%	1.821	· Corporate Related
Locky & Finance 6721	35,543,847.17	1,607,622.39	37,151,469.56	4.331	14.542	Corporate related
internal Relation 6722	21,923,966.54	591,582.35	22,515,548.89	2.63%	8.812	Ather
furan Resources 1 5723	25,709,448.25	1,897,398.07	27,606,846.32	6.872	10.802 \	011-0
-6725	8,048,573.50	6,090,289.84	14,138,863.34	43.072	5.53	
roturement 1 6726	9,949,186.75	483,515.50	10,432,706.25	4.632	4.082	
24 D - 6727	11,424,261.06	254,793.85	11,679,054.91	2.18%	4.572	
then 68A - 5728	109,856,368.54	5,910,382.40	116,766,750.94	5.92	45.692	
	236,916,228.39	18,671,559.94	255,587,788.33	7.312	100.001	

Source: Bolance to Reg. acoto Report

- Jample of expenses being reviewed in NARUC C SAP audit to determine if changed to proper cost pool - sample of expenses being reviewed in FLA. Rate Case audit to determine if changed to proper cost pool.
- 1- Both of these have had analysis done by cost pool of are being turned over to archie Hickerson to test appropriate som association
- need to do circled them. Not able to complete

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TITLE:

ANALYSIS OF 5000 ACCOUNTS

DECEMBER 31, 1992

TEST YEAR: AUDITOR: DATE:

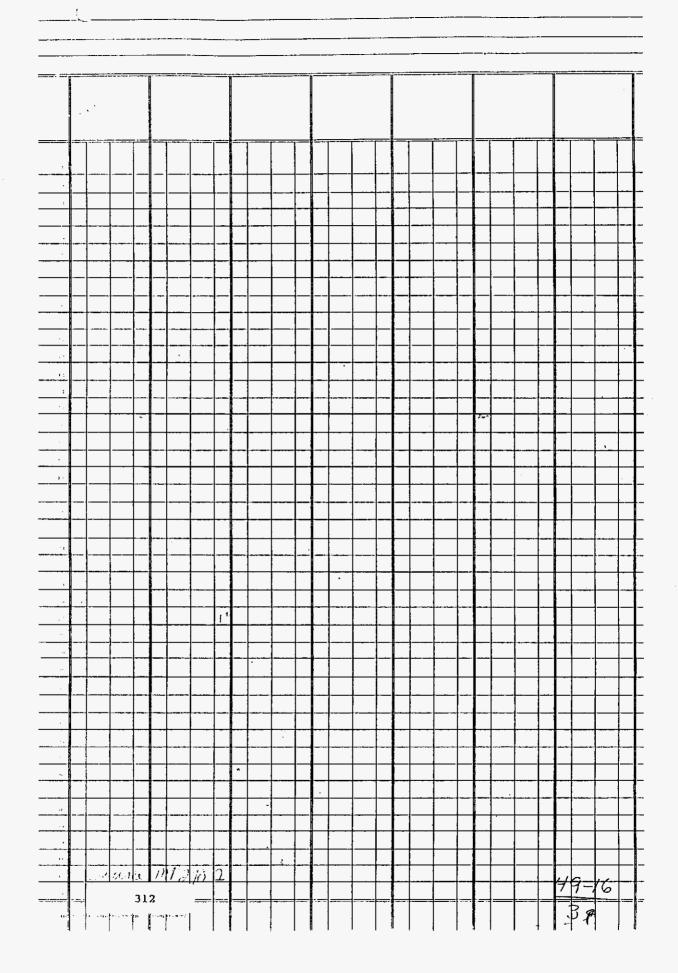
K. WELCH AUGUST 17, 1993

WORKPAPER #

	FR				
ACCOUNT	REG	NON-REG	TOTAL	Z NON REG Z I	O TOTAL GROUP
6112	7,069,054.35	509,354.05	7,578,408.40	6.72 <b>%</b>	4.48%
6113	1,697,232.37	113,423.00	1,810,655.37	6.26%	1.072
£114	555.27	39.06	593.33	6.412	0.002
6115	332,731.54	29,530.33	362,261.87	8.151	0.212
6116	678,549.34	43,697.06	722,236.40	6.054	0.431
6121	65,044,447.55	1,720,739.52	66,765,107.07	2.581	39.492
8122	2,049,471.52	138,214.85	2,187,685.37	€.321	1.291
6123	12,455,104.93	253,848.91	12,708,953.74	2.002	7.52%
6124	72,697,526.85	4,215,506.27	76,913,033.12	5.482	45.50%
	~162,024,573.72	7,024,341.95	169,049,015.67	4.16%	100.00
6212	62,678,298.97	1,472,350.15	64,150,649.12	2.30%	41.962
6211	33,508,212.51	99.37	33,506,311.98	0.002	21.92%
5220	3,139,564.69		3,139,564.69	0.002	2.05%
6231	720,463.58		720,463.58	0.001	0.472
6232	51,363,835.41		51,363,835.41	0.007	33.60%
-	151,408,375.16	1,472,449.52	152,880,824.68	0.962	100.001
6311	153,231.92	·	153,231.92	0.004	0.192
6341	1,137,039.34	1,924.33	1,138,863.67	0.16%	1.412
6351	15,490,436.54		15,490,436.54	0.00%	19.127
6362	23,243,570.86	41,004,513.30	64,248,084.16.	63.82%	79.29%
_	40,024,278.66	41,006,337.63	81,030,616.29	50.612	100.007
6411	7,046,181.24		7,046,181.24	0.002	3.662
6421	46,813,742.03		46,813,742.03	0.00%	24.29%
6422	18,395,205.72		18,395,205.72	0.001	9.55%
6423	116,305,296.77		115,205,296.77	0.002	60.352
6424	84,360.30		84,360.30	9.007	0.04%
6426	1,447,956.29		1,447,956.29	0.00%	0.75%
6431	72,692.42		72,692.42	0.002	0.04%
6441	2,550,348.34		2,550,348.34	0.001	1.32%
-	192,715,783.14 1	0.00	192,715,783.11	0.00%	100.00%
6512	3,473,597.18	192,553.36	3,568,150.54	5.25%	0.351
6531	10,292,075.80	51,652.50	10,343,729.30	0.501	1.00%
6532	27,559,586.20	817,167.13	28,376,753.33	2.00%	2.732
6533	60,127,185.35	18,607,489.68	78,734,675.63	23.632	7.591
6534	85,700,923.82	9,988,139.06	96,589,062.88	10.24%	\$18.8
GS35	75,300,551.77	416,200.33	75,716,752.10	0.55%	7.30%
6540	12,301,651.72		12,901,551.72	0.00%	1.23%
6561	719,710,275.47	5,150,239.28	724,860,514.73	0.71%	69.84%
5563	2,747,692,93	166,627,64	2,814,320,57	5.721	0.28%

6565	3,670,747.23	151,959.68	3,822,706.91	3.982	0.37%
	1,002,384,289.07	35,442,028.64	1,037,826,317.71	3,424	100.001
1199	18,598,775.58	673,281.43	19,272,057.01	3.49\$	53.54%
6613	15,615,198.26	1,107,057.44	16,722,253.70	6.621	46.46%
	34,213,971.94	1,780,338.87	35,994,310.71	4.95%	100.002
6612	61,777,824.33	1,471,260.14	63,249,084.47	2.33%	19.391
6621	20,220,997.35	6.47	20,221,003.82	0.007	5.202
€622	58,039,042.46		58,039,042.46	0.007	17.802
6623	238,321,115.14	9,569,465.87	247,890,581.01	3.862	76.00%
	316,581,154.95	9,569,472.34	326,150,627.29	2.932	100.00\$
1173	9,208,971.72	600,039.17	9,809,010.89	6.12%	3.831
6712	4,426,546.86	235,932.37	4,662,479.23	5.06%	1.82%
6721	35,462,687.17	1,607,622.39	37,090,309.56	4.337	14.472
6722	21,923,966.54	591,582.35	22,515,548.89	2.63%	8.782
6723	25,569,957.25	1,897,398.07	27,467,355.32	6.912	10.72%
5725	8.048,573.50	5.090,289.84	14,138,863.34	43.07%	5.521
6726	9,949,186.75	483,519.50	10,432,706.25	4.632	4.07%
6727	11,424,261.06	254,793.85	11,679,054.91	2.18%	4.56%
6729	111,614,654.54	6,910,382.40	118,525,036.94	5.834	46.241
•	237,548,805.39	18,671,559.94	256,320,365.33	7.28%	100.00

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SST

TITLE:

ANALYSIS OF GOOD ACCOUNTS FOR APRIL

TEST YEAR:

DECEMBER 31, 1992

AUDITOR:

K. WELCH

DATE:

AUGUST 17, 1993

MORKPAPER #

ACCOUNT	REG	NON-REG	TOTAL	I NON REG I TO	TOTAL GROUP	
6112	224,745.36	18,558.40	243,313.76	7.63%	3.29%	
6113	124,634.21	7,752.17	132,396.38	5.862	1.791	
6115	25,853.57	2,151.02	26,004.69	7.582	0.381	
9119	76,695.74	4,643.10	81,328.84	5.71%	1.107	
6121	5,110,175.11	121,488.34	5,231,563.45	2.321	70.572	
6122	67,116.05	4,041.62	71,157.67	5.601	0.961	روم
6123	1,590,523.23	24,580.89	1,815,204.12	1.53	21.827	٠, ٥,
		•				
•	7,219,743.37	183,325.54	7,403,068.91	7.48X _	100,001	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	.,,	48-16p3		
6212	3,088,480.82	33,311.56	3,121,792.38	1.072	29.184	
8211	3,343,823.60	2.11	3,343,825.71	0.002	31.25	
6220	125,010.52		125,010.52	0.00%	4:174	CPOZ
6231	33,498.98		33,498.98	0.00%	0.317	
6232	4,076,079.74		4,076,079.74	0.002	38.097	
•	IA CCC 000 CC	90 919 67	10,700,207.33	0.314	100.002	
	10,666,893.66	33,313.67	10,100,201.33	49-1403	>	
5311	9,876.14		9,876.14	0.001	0.121	C 4
1469	44,852.65	99.56	44,952.21	0.22%	0.831	C#03
6351	955,872.00		955,872.00	0.001	17.70%	
6362	1,584,047.54	2,705,144.31	4,389,191.95	\$1.632	81.28%	
•	2,694,648.43	2,705,243.87	5,399,892.30	50.102	100.002	
	2,531,510115	2,100,210101	010001202100	(49-16 p3)	100,004	
6411	580,529.73		580,529.73	200.0	3.642	
6421	3,818,009.98		3,818,009.98	0.002	23.94%	_
6422	1,495,038.09		1,495,038.09	0.001	9.371	C PO 4
6423	9,751,693.72		9,751,693.72	0.00%	61.14%	
8424	34.35		24.36	0.001	0.002	
6426	85,638.94		86,538.94	200.0	0.542	
6431	1,517.72		1,517.72		0.01	
6441	215,479.26		216,479.26	0.00%	1.362	
-			<u>: .</u>			
	15,950,041.80	0.00	15,950,041.80	0.002	100.002	
				· 49-16p3	`	
6512	588,229.72	23,162.50	611,392.32	3.79%	2.75%	
6531	713,952.11	3,044.34	716,996.45	0.42%	3.22%	C Pos
6532	2,299,429.39	,: 6,915.31	2,306,344.70	0.30%	10.36%	
6533	4,835,733.26		5,955,551.97	18.79%	26.76%	
6534	5,828,077.52		6,494,949.99	10.30%	29.18%	
6535	5,142,353.52	28,923.22	6,171,276.74	0.47%	27.?37	
-	20,406,775.52	1,849,736.55	22,256,512.17	. 3.312	100.007	
	20,700,113.32	1,073,130.33	22,230,312.11 Pent	9-1603/8.67.	.00.004	
5611	1,569,634.45	82.818,82	1,625,453.01	2.431	28.471	

6612 LESS CP01 9512 6613	4,981,523.27 (4,029,015.13) 2,799,328.50	44,992.25 (27,589.65) 314,045.71	5,026,515.52 (4,056,704.78) 3,113,374.21	0.90% \$83.0 \$85.01	18.52% -14.95% 54.54%	•
	5,321,471.09	387,166.87	5,708,637.96	6.78 <del>1</del>	86.593	·
6621 6622 6623	1,727,510.42 4,682,911.54 19,952,820.13	773,511.49	1,727,510.42 4,582,911.54 20,726,331.62	0.00 <b>z</b> 0.00 <b>z</b> 3.73 <b>ž</b>	6.37% 17.26% 76.38%	
	26,363,142.19	773,511.49	27,136,653.68	2.852 49-14p3	100.002	
6711 6712 6721 6722 6723 6725 6726 6727	727,032.12 510,105.81 2,958,567.15 1,645,363.31 1,913,107.71 946,829.17 820,380.26 792,284.99 6,455,630.60	39,836.96 23,202.92 110,336.59 45,612.74 129,025.84 340,350.62 21,006.62 22,828.50 675,417.11	766,869.08 533,308.73 3,068,953.74 1,690,976.05 2,042,134.55 1,287,189.79 941,326.88 915,113.49 7,132,047.71	5.19x 4.35x 3.60x 7.70x 6.32x 26.44x 2.50x 2.80x 9.48x 7.75x Par 49-16 c 3	4.22x 2.93x 16.88x 9.30x 11.23x 7.08x 4.63x 4.46x 39.23x	Conflict to Confident

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TITLE:

ANALYTICAL REVIEW OF BELLCORE

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TEST YEAR:

1992

AUDITOR:

KATHY WELCH

DATE:

AUGUST 3, 1993

WORKPAPER #

			ž	<u>.</u>	7	
			INCREASE		INCREASE	
ACCOUNT	#	1992	OVER 91	1991	OVER 90	1990
	401111	475,033,702.26	98.427	483,685,523.04	107.97%	447,954,450.60
Force adj.allow	401113	3,991,560.57	209.421	1,906,044.30	•	
Incremental Inc. over	- 401114	20,287,329.43	358.80%	5,500,924.70		
5 od SET	401115	143,855.90				
	401116		0.002	1,361,154.00		
	401121	3,497,982.20	114.812	3,046,794.46	60.112	5,068,706.89
Other Mis supplie	s 403111	12,255,640.37	71.747	17,082,412.77	79.612	21,458,097.70
• •	403112	82,767.40	1.77%	3,541,928.37	71.05%	4,985,330.29
	403113	2,121,269.87	100.55%	2,109,539.23	108.657	1,941,568.78
	403114	291,427.07	101.05%	288,392.13	69.872	412,733.53
Books	403115	1,217,970.21		,		Ť
Computer Supp	403116	4,392,171.18				
Office Supp	403117	1,994,854.54				
Electronic Com		1,950,682.88				
Hardware	403119	261,179.11				
	403120	14.691,987				
Contract Sec RV Rep	403251	453,230.98	9.05%	5,010,651.84	91.64%	5,467,562.95
	403252	10,478.34		-,,		.,,
	403253	2,978.30				
	403254	30,918,490.33	110.007	28,105,827.00	89.992	31,233,128.53
••	403255	1,345,287.24	86.957	1,547,211.72	69.78%	2,217,360.19
	403256	1,936,788.08	106.662	1,815,813.10	120.112	1,511,748.23
Contract Servi English		550,144.76	35.462	1,551,267.14	317.867	488,037.56
	403262	625,459.71	77.497	807,121.00	130.522	518,408.00
	403253	1,100,681.83	103.697	1,061,474.60	104.932	1,011,581.39
	103264	3,499,638,91	94.782	3,692,309.83	98.437	3,751,286.77
	403265	12,041,962.95	118.877	10,130,635.49	67.39%	
	403266	13,429,629.43	128.007	10,492,261.18	99.072	10,591,010.47
	403271	15,297,590.59	165.207	9,260,183.24	199.377	4,644,740.40
	403281	249,904.84	58.742	423,736.70	96.00%	441,400.09
Cutplecommt Servitora	403282	(44,978.57)	-6.444	697,915.00		,,,,,,,,,,,
•	403283	,	0.001	184,685.00	•	
Contract Serv. Lic.	403291	1,323,414.00	93.364	1,417,500.29	2559.037	55,180.44
	403311	3,616,324.66	93.042	3,386,760.74	93.392	4,162,004.03
	403321	1,819,495.85	57.20%	3,180,774.91	73.142	4,349,102.53
	403322	33,242.48	75.424	123,633.65	99,291	124,513.88
	403331	11,596,200.87	97.88%	11,847,594.30	92.317	12,834,275.78
	403341	5,738.57	83.412	6,979.72	20.54%	33,332.40
	403351	1,272,545.42	90.602	1,404,585.36	98.037	1,432,825.51
Tracking	403361	1,258,614.50	128.174	981,988.13	79.472	1,235,701.19
Tracking Mise contract ar	403331	16,563,089.11	121.06%	13,682,076.70	95.16%	14,377,945.25
	403392	3,708,677.99	102.65%	3,612,851.63	95.437	3,785,998.00
	403393	141,772.39	87.392	505,489.36	218.372	231,484.73
	403394	1,898,538.03	88.082	2,155,591.98	98.577	2,186,798.54
	114004	11,427,685.18	124.467	9,181,680.11	133,144	6,896,095.16
	403412	(79,162.01)				
	406212	20,728,493.25	102.527	20,219,675.39	79.517	25,430,863.32

881

ANALYTICAL REVIEW OF BELLCORE 1992

TITLE: TEST YEAR:

KATHY WELCH AUGUST 3, 1993 AUDITOR:

DATE:

, 1

HORKPAPER #

		7	š.	7	
		INCREASE		INCREASE	
ACCOUNT #	1992	OVER 91	1991	OVER 90	1350
406213	2,189,550.62	103.93%	2,106,802.14	76.85%	2,741,569.10
412304	1,368.55	75.102	1,822.28	26.86	6,784.04
406215	44,179.64	93.88%	47,056.76		
406251	1,217,818.00	111.142	1,095,714.31	76.527	1,430,039.14
406252	147,743.75	106.357	•	77.05%	180,288.30
406253	339.99	46.147		85.50%	861.92
406254	45,296.41	79,067	57,295.55	78.677	72,826.48
406255	5,911.77	319.972	2,160.10		,
Relocation Exp. 406311	8,993,567.43	98.732	9,108,831.01	88.397	10,306,616.87
Relocation RTAP 406321	255,341.60		4,2-0,002-00		,,
406331	3,047,374.10	109.752	2,776,556.49	113.37%	2,449,097.05
406391	2,709,611.67	101.492	2,669,778.86	48.387	5,517,919.73
406411	816,231.44	83.932	972,551.58	63.732	1,526,167.20
406421	49,316.92	56.874	86,711.71	191.142	45,385.51
406431	53,475.48	94.65%	56,495.31	85.76	65,873.79
406451	244,014.08	62.85	388,243.26	144.12%	269,390.44
406511	11,759,530.75	98.537	11,922,374.87	103.137	11,560,031.18
membership Fees Dun405811	174.70	0.002	3,586,961.70	143.952	2,491,894.17
	1,742,245.50	120.512	1,445,780.93	126.627	1,141,792.65
406910	1,461,349.81	184.692	791,267.03		
406911	3,478,771.28	69.467	5,007,974.17	73.247	6,838,036.63
406913	1,587,613.42	64.402	2,465,182.16	55.107	4,473,807.87
Rocognition A words 406914	142,845.79	258.687	55,220.38	594.917	9,282.08
406312	11,190.00				
Training Rog. Fee \$ 108916	722,422.01				
406917	135,257.38				
406918	146,821.30				
406998	0.00			0.002	(235,944.38)
407111	18,525,878.61	95.58%	17,289,336.27	99.76%	17,330,827.70
407211	15,772,997.64	91.91%	17,180,179.52	97.807	17,566,877.21
407311	171,906.33	83.432	205,038.10	109.867.	187,550.05
407411 408111	811,369.90	158.707	511,266.40	191.297	267,274.31
Rontals & Loase Egypt08211	31,083,092.17 25,112,359.01	99.04% 82.69%	31,384,366.49 30,368,516.83	97.802 101.932	32,091,187.08 29,793,060.70
408311	425,241.58	85.207	499,119.21	114.002	437,838.79
408411	8,543,169.99	126.97%	6,728,495.99	94.54%	7,116,722.11
408911 411111	329,823.91 (6,105.73)	41.582 275.902	793,158.21 (2,213.04)	99.817 -5.797	794,691.61 38,245.71
411911	8,042.22	140.247	5,734.60	91,467	6,270.36
415111	82,889.26	48.547	170,753.84	95.892	178,074.94
I would Take m Equip 415711	2,533,554.42	61.942	4,090,548.84	97.58	4,191,989.70
Local Talcom Equip 415211 Local Message Units 415311	6,302,524.12	103.637	6,081,801.36	102.312	5,944,297.13
415312	134,179.03	7071.99%	1,897.33	1451414	7,311,601,120
415411	3,410,004.19	92.932	2,669,351.83	113.37%	3,236,659.87
416111	3,864,168.79	103.242	3,549,268.32	103.012	3,445,403.96
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
TOTAL 400	842,285,987.40	101.142	832,804,153.11	102.891	809,484,657.96

9,481,834.29

BST

TITLE:

AMALYTICAL REVIEW OF BELLCORE

TEST YEAR:

1992

AUDITOR: DATE: KATHY WELCH AUGUST 3, 1993

WORKPAPER #

	4		*		
	INCREASE		INCREASE		
ACCOUNT # L	992 OVER 91	1991	OVER 90	1990	, i
Pansion Plan Mg mt 501111 13,58		- 07 057 440 00	110 575	00 000 101 00	
			119.57%	22,880,181.00	
	0,148.01 77.14		-175.142	(273,984.00)	
	3,752.34 58.86		95.343	2,839,998.44	
	9,830.00 13.82	•	138.927	103,320.00	
Pension Exp. Other 501151 > 11,12			49.887	458,105.20	
501211 1: 501212	9,746.91 80.01	•	288.627	8,550.88	
	9.892		118.637	2 040 720 00	
	3,122.46 111.46		51.312	2,849,730.96	
	2,567.22 116.50 <sup>3</sup>		51.314	15,950.67	
	,921.00 101.06		10 079	10 000 40	
501251 1901391	1921.00 101.004	1,801.90	10.677	16,892.39	
501331 Ganasa += 501411 977	, COA 00		0.002	1,200.00	
Death Bencfits 501411 377	7,684.99		0.002	305,257.98	
	777 90 71 603	000 000 10	0.002	54,606.83	
	6,777.26 71.402		79.602	1,243,500.12	
	6,192.16 102.273	•	59.317	273,999.96	
	73.634	•	121.687	196,299.20	
	1,240.22 [04.023	· ·	113.772	12,158,186.18	
	,151.27 100.812	-	109.102	2,001,504.00	بوداق
501653	0.002	•	4491.427	448.29	
	,994.70 117.56%		98.21%	390,596.43	
501662 98	,899.01 330.027		24.052	124,598.00	
	,927.37 178.10%		40.087	1,117,831.34	
	,938.93 24.00%		93.502	521,136.59	
	,714.90 126.792	· ·	251.812	3,042.78	
	,562.50 1189.772	•	7,891	294,996.00	
	,302.45 101.692		90.12%	126,899.25	
	,768.18 148.502	13,311.96			
	,309.65 132.927	1,774,996.51	80.632	2,201,532.93	
	,000.00		0.00%	2,369,609.85	
	208.481 00.000,	375,000.00	25.007	1,500,000.00	
	,452.18 140.64 <b>2</b>	60,760.57	104.23%	58,297.10	
501751	555 10 100 100		0.002	204.84	
	,665.10 122.42%	32,311,606.15		32,980,897.54	
	,793.37 119.94%	775,208.41	190.612	. 406,702.49	
	,583.07 122.59	14,342.45			
	,843.53 150.457	219,236.46	91.927	238,499.36	
	771.63 103.412	58,765.28			
	\$14.121 04.878	21,975.35	71.72%	30,639.47	
	584.88 56.082	21.124,8	143.802	5,876.97	
	323.55 79.942	26,674.78	24.132	110,536.12	
501912 146.	,398.00 135.372	109,143.60			
	605.01 1925.28%	57,789.25			
Non Qualif Knows 5 Mg + (501914) 5,434	823.01 1800.447	301,860.48			
501915 299,	424.95 151.027	198,265.08			
501921 323,	237.93 174.952	184,763.06	114.107	161,936.63	

COMPANY: TITLE: BST

AMALYTICAL REVIEW OF BELLCORE

TEST YEAR: AUDITOR: 1992

KATHY WELCH

DATE:

AUGUST 3, 1993

WORKPAPER #

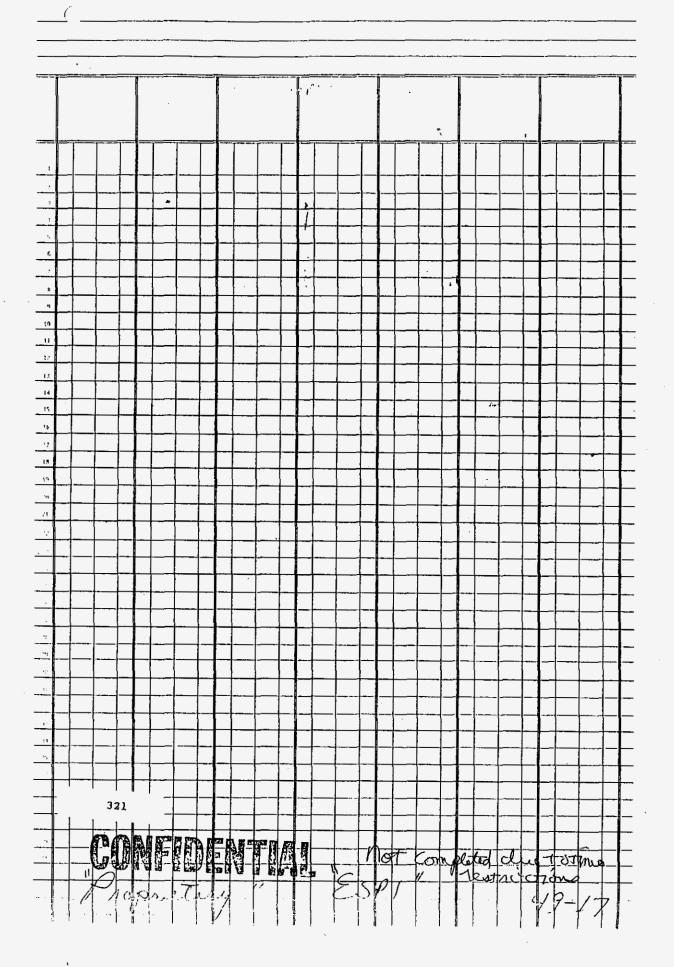
			X .		ž.		
			INCREASE		INCREASE		
ACCOUNT	4	1992	OVER 91	1991	OVER 90	1990	ا ,
	502111	78,719,109.03	101.432	77,609,768.20	105.442	73,507,564.24	,
Deprec Gain/Loss	502112	7,895,438.07	178.492	4,423,449.99	238.534	1,354,492.81	
	502211	988.45	120.027	823.54	100.00%	823.53	
	502221	63,965.63	65.893	97,072.56	99.23%	97,827.59	
	502222				0.002	1,099,917.17	
amorting Cap Lease	502311 ص	14,259,020.13	137.88%	10,341,368.08	123.274	9,389,899.64	
Ot. 3 (I	503111	36,849,050.00	104.02%	35,426,436.00	107.052	33,092,620.00	
	503113	(1,327,000.00)	\$3.91	(1,413,000.00)	61.17%	(2,310,000.00)	
	503121	(18,061,017.00)	111.012	(16,269,961.00)	86.687	(18,770,977.00)	
	503122	(3,735,282.00)	244.104	(1,530,242.00)	104.623	(1,462,675.00)	
	503211	9,957,463.00	135.284	7,360,457.00	89.417	8,232,009.00	
Dep Tax Vocation A	<b>€503221</b>	(4,499,017.00)	167.291	(2,689,421.00)	141.872	(1,895,690.00)	
	503231	8,170,499.09	101.10%	8,081,350.07	112.067	7,211,310.40	
	503241	(949,563.00)	234.254	(405,380.00)	123.57%	(328,046.00)	
State iTay	7 503311	678,892.00	122.787	552,939.00	111.02%	498,043.00	
	503331	88,600.00	692.192	12,800.00	35.734	35,820.00	
	503332		0.002	29,600.00			
	504111	489,120.66	92.512	528,157.66	105.762	499,380.36	
	504211	33,340,892.85	104.197	31,999,934.29	112.397	11.030,274,82	
St. Unwangley Ta)	c 504311	2,371,084.18	169.22%	1,401,219.37	102.247	1,370,474.21	- موادي
¥ ,	504411	5,809.95	-319.874	(1,816.32)	122.192	(1,486.53)	
	505111		0.007	28,600.01	116.972	24,450.00	
	505211	1,705,291.98	83.417	2,044,408.26	103.52%	1,974,834.46	
	505221	5,382,884.02	94.99%	5,667,005.10	93.73%	6,045,795.28	
	506211	16,065.64	11.582	139,899.12			
	110302	49,972.51	\$8.70%	72,737.47			
	506811	(1,567,493.35)					
Other Corp Cours <	206911	∕16,631,837.77	611.54%	2,719,666.38	7512.247	36,203.15	
	507111	4,510,913.52	100.001	+,510,913.52	100.00%	4,510,913.52	
	509111	1,005,072.27	33.524	2,989,813.40	246.087	1,214,987.66	
Interest Exp	509211	2,846,884.50	53.14%	5,357,034.38	86.497	10.888,001,6	
, ,	509221	1,493.32	-34.012	(4,390.62)	9.702	(45,253.48)	
Interest Copiesse	509911	4,313,097.50	152.31% 0.00%	2,831,860.02 662.73	121.76%	2,325,792.94	
·	510111	528,762.00	126.05%	419,475.35	108.502	386,239.94	
	510211	570,333.00	73.93%	771,401.00	173.822	443,804.00	
Ins. W/C	510311	1,183,524.50	258.33%	458,137.13	118.982	- 385,049.40	
Errors Commis	510411	448,015.85	0.00%	100.00	100.00%	100,00	
	510911	518.421.95	69.87%	741,937.23	112.83%	657,576.00	
Other Ina	520111	226,228.35	98.78%	229,015.88	115.457	198,371.93	
	520211	79,640.90	98.59%	80,779.60	122.837	65,765.00	
	520311	21,600.00	165.52%	13,050.00	43.942	29,700.00	
	520411	178,300.00	93.827	190,050.00	97.59%	194,750.00	
	520511	155,290.00	85.30%	182,050.00	72.454	251,280.00	
	520611	6,500.00	356.673	1,300.00	180.00%	1,000.00	
	520711	13,137.90	110.77%	11,860.00	79.91%	14,842.00	

CONTENT. TITLE: TEST YEAR: AUDITOR: DATE: WORKPAPER #	AMALYTICAL REVIE 1992 KATHY WELCH AUGUST 3, 1993	W DF BELLCOR	E }	•	
ACCOUNT # 520911	1992 38,400.00	INCREASE OVER 91 127.152	1991 30,200.00	z INCREASE OVER 90 40.922	1990 73,800.00
TOTAL 500	307,793,589.83 111.97% 274		274,888,301.35	108.89% 252,453,743.03	
Inc in Exp	=========== 32,905,288	3.48			

Total Inc 42,387,122,77

WP49-1 pl describes \$53.9 mil impact of Feorg costs.
This would indicate that other costs actually decreased by \$11,512,878

Source: Bellcore T/B.



Beller

Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260-TL Audit Date: 07/02/93 Amended Response to Item No. 2-117 Page 1 of 2

Request: Provide the following Bellcore accounts for 1992, provide the balances per the general ledger by month. For the highest month of the twelve, provide all supporting documentation for all entries for each of these accounts.

406212 408111 408211 649086 671151

Response: The Company amends its response of July 12, 1993 in which it stated that the requested information or a status report would be provided on or before July 19, 1993 as follows:

See Attachment A for the 1992 general ledger balances, by month, for accounts 406-212, 408-111, 408-211, 649-086, and 671-151.

The highest month for each account are as follows:

Account	Highest Month		
406-212	December 1992		
408-111	January 1992		
408-211	September 1992		
649-086	September 1992		
671-151	December 1992		

Bellcore has provided the requested supporting documentation in the form of a report which identifies the charges to the accounts in question. The report provides the amount of each charge, vendor name, date paid and other identifying information for Bellcore. Due to the number of entries involved for each of the

Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260-TL Audit Date: 07/02/93 Amended Response to Item No. 2-117 Page 2 of 2

## Response continued:

accounts, further supporting documentation (i.e., invoices, vouchers, etc.) would be voluminous and require extensive time to compile for each of these accounts. However, Bellcore is willing to compile further supporting documentation for a sample of these entries.

This supporting documentation information constitutes very sensitive proprietary confidential business and is being mailed to the 666 Flagler Street building to be available for review on Company premises on July 16, 1993.

## SPECIED CONFIDENTIAL

Date Provided: July 15, 1993

see yel Per the General Ledger, the balances by month for the accounts indicated are as follows: 649-086 408-211 671-151 408-111 974,480.04 2,658,405.59 2,343,752.68 134,474.04 January 31,944.88 1,494,442.00 2,499,279.26 1,899,441,80 147.960.22 February 33,622,60 March 2,053,266.54 2,641,968.30 2.060,432,44 175,977.40 34,236.40 April 1,890,278.21 2,630,066.98 2,135,103.90 158,008.10 34,209.12 1,656,063.50 2,621,979.66 34,236,40 May 2,306,357.50 160,849.94 June 1,929,844.54 2,623,774.75 2,037,114.59 - 153,304.01 32,422.28 1,931,503.08 32,940.60 July 1,723,936.85 2,504,617.30 202,247.55 2,545,103.21 2,129,487,44 August 1,600,700.57 180,5<u>93.1</u>1€ 33.881.76 September 2,597,944.79 2,561,709.30©209;938.45 1,470,884.50 34,236.40 1,956,925.72 34,222.76 2,579,733.69 2,014,419.79 188,334.90 October 1 2,591,925.28 November 1,762,766.85 1,985,645.31 198,131.34 34,222.76 2,204,903,93 2,588,293.36 1,707,391.18 December ( 5,147,30) 76,463.47 \$ 446 639.43 1904,671,60 Consists Mainly of Affentices Most under \$15000 - Skimmed - appeared to payroll B consists nainly of Vouchers. Several are over \$100,000 & being tested in an atternative test. (One River assoc, Shar assoc, Sudler, Evans Charles, Souligate Corp, circle assoc) (49-14) mostly small vouchers, selected a few for review 49-18/1 (Bell attention leasing on 49-14) (amdake corpor 4)

FOIKOZN 006438



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Result of G/L Scan Bellione kw 193 8/6/13 ۳, 36 34 18 34 40 40 325

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Dist Ocot 2nu # Dest Payee acco amor Voucles 326

649-086: Corporate Legislative/Regulatory Support (Project 915XX)  Corporate Legislative/Regulatory Support expenses are charged to project 915XX and include all expenditures associated with the Regulation and Government Support organizations. These organizations assist the regions in identifying, monitoring, and analyzing regulatory issues of concern. They advise and assist the Regional Holding Companies in their interactions with Congressional Committees, the Federal Communication Commission and the Executive Branch.  Corporate Legislative/Regulatory Support expenses are charged back to all Area Support, Service Center, SDCPD/EC, and External Billable Projects on the basis of Average Belicore Employee and Average Resident Visitor-Reported headcount.  671-151: Standard Rated Corporate Services Center Normalization (Washington Regulatory Internal Services (Project 815XX)  Bellicore's Corporate Service Centers are structured to provide on an economical basis, those services which are commonly required by most of the organizations in the company. Standard Rated Service Centers are billed directly to the user organization on a usage basis which is charged at standard rates. At year-end a normalization process may be performed to eliminate any residual over/under recovery that exists within the Standard Rated Corporate Service Centers. This normalization process allows any over/under recovery expenses to be charged back to the External projects on the basis of usage.			
649-086: Corporate Legislative/Regulatory Support (Project 915XX)  Corporate Legislative/Regulatory Support expenses are charged to project 915XX and include all expenditures associated with the Regulation and Government Support organizations. These organizations assist the regions in identifying, monitoring, and analyzing regulatory issues of concern. They advise and assist the Regional Holding Companies in their interactions with Congressional Committees, the Federal Communication Commission and the Executive Branch.  Corporate Legislative/Regulatory Support expenses are charged back to all Area Support, Service Center, SDCPE/EC, and External Billable Projects on the basis of Average Bellcore Employee and Average Resident Visitor-Reported headcount.  671-151: Standard Rated Corporate Service Center Normalization (Washington Regulatory Internal Services (Project 815XX)  Bellcore's Corporate Service Centers are structured to provide on an economical basis, those services which are commonly required by most of the organizations in the company. Standard Rated Service Centers are billed directly to the user organization on a usage basis which is charged at standard rates. At year-end a normalization process may be performed to eliminate any residual over/under recovery that exists within the Standard Rated Corporate Service Centers. This normalization process allows any over/under recovery expenses to be charged back to the External projects on the basis of usage.  See 49-18  FRIMEN SIELICORE AND AUTHORIZED CLIENTS ONLY  See proprietary setuicions as nius page  FRIMEN SIELICORE AND AUTHORIZED CLIENTS ONLY  FRIMEN SIELICORE AND AUTHORIZED CLIENTS ONLY  FRIMEN SIELICORE AND AUTHORIZED CLIENTS ONLY	- OP-		
649-086: Corporate Legislative/Regulatory Support (Project 915XX)  Corporate Legislative/Regulatory Support expenses are charged to project 915XX and include all expenditures associated with the Regulation and Government Support organizations. These organizations assist the regions in identifying, monitoring, and analyzing regulatory issues of concern. They advise and assist the Regional Holding Companies in their interactions with Congressional Committees, the Federal Communication Commission and the Executive Branch.  Corporate Legislative/Regulatory Support expenses are charged back to all Area Support, Service Center, SDCPE/EC, and External Billable Projects on the basis of Average Bellcore Employee and Average Resident Visitor-Reported headcount.  671-151: Standard Rated Corporate Service Center Normalization (Washington Regulatory Internal Services (Project 815XX)  Bellcore's Corporate Service Centers are structured to provide on an economical basis, those services which are commonly required by most of the organizations in the company. Standard Rated Service Centers are billed directly to the user organization process may be performed to eliminate any residual over/under recovery that exists within the Standard Rated Corporate Service Centers. This normalization process allows any over/under recovery expenses to be charged back to the External projects on the basis of usage.  PROPRIETARY BELLCORE AND AUTHORIZED CHENIS ONLY  See proprietary restrictions on hits page  FRINKEN BIRESE	SENI BY: Xerox (elecopier 702)	; 8-23-83 ; 1:44PM ; REGULATURY SUPPU	NI™ 812U587715d3;# 4
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## RECEIVED

SEP 3 1993

Florida Public Service Comm. Miami, Florida

Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260-TL Audit Date: 08/1,1/93
Item No. 2-117.1

Page 1 of 2

Request: A. Provide detail for charges to Account 649-086, Project 915XXX and Account 671-151, Project 815XXX as done in this request for Account 406-212, 408-111 and 2117.

Do the XX's mean that there are sub-projects? If so, provide descriptions and dollars for each.

- B. Are any of these costs charged to Project 48004? If so, describe duplication.
- C. Provide supporting documentation for the 6 checks from ESPI. List provided on attached sheet. (The list was given to Al Carreras due to the confidential nature and since it may be ESPI material).
- Response: A. As included in our original response to Data Request 2-117 and included in Attachment 1, Accounts 649-086 and 671-151 represent allocation chargeback accounts and as such, accumulate cost on the basis of allocations identified in Accounting Instruction 02, Bellcore's Cost Accounting/Allocation Process. These accounts are not billable to any customer, but are used to accumulate costs for the purpose of allocating to external billable projects. The XX designations in the project number represent different work package levels which provide Bellcore with the ability to track the allocation of costs at a more detailed level for the allocation to external billable projects.

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B. Yes, there are costs charged to external project 480004 from Accounts 649-086 and 671-151. However, there is no duplication of costs as these accounts are reduced to zero after allocation to the external billable projects(s). The supporting costs details associated with such allocations are handled in accordance with Accounting Instruction 02.

- My His

Southern Bell Tel; F Tel; Co FPSC Docket No. 920260-TL Audit Date: 08/11/93 Item No. 2-117.1 Page 2 of 2

## Response continued:

C. Attached is the supporting documentation (Attachment 2) requested for the six items referenced above. Please note that two of the invoices involve split accounting and, therefore, the amounts are a prorated portion of the total invoice. The first is the payment to Marquis Leasing Association for the payment to the total invoice amount of the total invoice amount of the second is the payment to IBM for the second is the payment to IBM for the second is the total invoice amount of the second is the second invoice amount of the second invoice amou

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Date Provided: August 31, 1993

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BELLCORE TOTAL SALARY DOLLARS FOR REQUESTED EMPLOYEES	ROPER	282733 100 100 100 100 100 100 100 100 100 1		179,889.13 3,286 PROPRIETARY-BELLCORE AND AUTHORIZED CLIBNTS ONLY This document contains proprietary information that shall be distributed or routed ody within Bell Communications Research (Edicare) and its authorized chents, except with written permission of Bellcare.
REVISED	Employec Name Mite Knapp Ramona Stewart Mary Davis Joel Ader William Wesley Carrie Jackson Portia Morris Jennifer Sheppard Suzan Andrews	Rosiland Parker Eddie Cooper Brenda Wesky Jacqueline White	Mike Knapp Rosiland Parker Angela Patterson Mini Darayand Baxtor Macon Brenda Wesley Jennifer Sheppard Jacqueline White	
Data Request #93-0145	Project(s) Charged AI701	81501	10016	

ITEM NO. 2-098.A ATTACHMENT

Michael Knapp - Director, Federal Regulatory Matters

On behalf of Bellcore, interfaces with the Federal Communications Commission, industry organizations and the RHC client companies in Washington, D.C. Supervises the managers of the Federal Regulatory Resource Center and Administrative Services projects.

Federal Regulatory Resource Center 1992 Project Number 582402 (A1701)

The Federal Resource Center project provides a centralized location for procuring documents from the Federal Communications Commissions and the U S Courts on behalf of its seven BCC clients. These documents are distributed, daily, to over 40 BCC locations for their use in responding to FCC proceedings (i.e., dockets, rulemakings, etc.) and other issues of importance to them. The Federal Resource Center project also procures U S Court documents, on behalf of the BCCs, that are of importance to them. In addition, the Federal Resource Center project provides the BCCs with access to individuals to perform specialized FCC and U S Court research on behalf of that BCC slight. A typical example is that a BCC requests that a staff heigher research information for them from a past FCC proceeding

Federal Resource denter Staff

Joe Ader - staff Manager

pirently manages the staff and operations of the ederal Resource Center staff.

Portia Morris - Assistant Manager

Performs specialized FCC research for individual BCC clients and is responsible for monitoring and tracking a specific set of FCC proceedings on behalf of the clients.

Ramona Stewart - Assistant Manager

Performs specialized FCC research for individual BCC clients and is responsible for monitoring and tracking a specific set of FCC proceedings on behalf of the clients.

Susan Andrews - Specialist

Performs specialized FCC research for individual BCC clients and is responsible for monitoring and tracking a specific set of FCC proceedings on behalf of the clients. Also monitors U S Court proceedings of interest to the clients.

Mary Davis - Assistant Manager

Serves as the single point of contact for BCC informal complaints filed with the FCC. Interfaces with FCC staff and BCC staff to facilitate the resolution of the informal complaints.

Carrie Jackson -

Assists the Assistant Manager in the facilitation of BCC informal complaints.

Jennifer Sheppard - Senior Support Associate

Maintains the filing system for all FCC documents obtained from the FCC. This material includes docketed proceedings, tariffs, formal complaints and FCC Reports.

William Wesley - Support Associate

Responsible for distributing all FCC material obtained from the FCC to over 40 BCC locations daily. Normal daily distributing includes approximately 700 bages of FCC documents, 165 copies of the Daily Digest and 50 copies of the Federal Register.

WASHINGTON ADMINISTRATIVE SUPPORT
1992 Project Number 81501/9154

Brenda Wesley - Associate Ma

Supervises support staff manager and directly manages the other members of the administrative staff in the Bellcore Washington Do office. Also directly responsible for local area letwork and other communications functions in the office.

Mimi Darayand - Support Associate

performs the Receptionist functions. Assist with the preparation of purchase orders, vouchers and accounts payable documentation.

Baxter Macon - Senior Support Associate

Responsible for all conference planning and facilitation activities in the Washington office. Administers the daily mailroom, supply ordering and stockroom functions for the office.

Eddie Cooper - Support Associate

Performs and administers the daily activities of the reproduction center. Responsible for processing the daily

overnight shipment of courier packages to the clients and has secondary responsibility for mailroom services.

Angela Patterson - Secretary

Provide secretarial, administrative and clerical support to the Federal Regulatory Director, Government Affairs organization and Legal organization.

Jacqueline White - Senior Support Associate

Provides administrative, clerical and secretarial support to the Government Affairs, Federal Regulatory and Legal organizations.

Rosiland Parker - Administrative Supervisor

Supervised the activities of support staff employees. Serves as liaison with Bellcore administrative personnel in New Jersey on behalf of the Washington office.

NOTE: On December 1, 1992, Rosiland Parker, Jacqueline White and Carrie Jackson left Bellcore as part of the work force adjustment at Bellcore.



Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260-TL Audit Date: 07/02/93 Amended Response to Item No. 2-098.A Page 1 of 1

Request: Re Bellcore: Clarification to Item #11. Instead of legislative/regulated, it should read "Washington Regulatory Support Division."

Response: In its response dated July 12, 1993 the Company stated that it would provide the information or a status report on or before July 19, 1993. The Company is providing the information as follows:

Bellcore has agreed to provide the following information in response to this request:

A list of the 1992 Bellcore employees, their job titles, job descriptions and a sheet showing total salaries paid to employees on each project is being mailed in the overnight mail on July 19, 1993. Individual employee salaries are not being furnished, as requested, for the following reasons, as stated on July 12, 1993 in response to Item No. 2-118.

BellSouth has requested this information from Bellcore. Bellcore has not provided the data, as requested, due to the following response:

- 1. Bellcore is concerned over the privacy issues related to providing confidential personal employee information.
- 2. Release of personal confidential employee information is in violation of Section 22, of Bellcore's Corporate Personnel Practice.
- Bellcore is a non-regulated company.
- 4. BellSouth has only 14% ownership in Bellcore; other regions have not given consent to provide this information.

This material constitutes proprietary confidential business information and is being produced subject to a "Notice of Intent to Request Confidential Classification."

Date Provided: July 19, 1993

Southern Bell Tel. & Tel. Co. FPSC Docket No. 920260-TL Audit Date: 07/02/93 Item No. 2-098.A Page 1 of 1

Request: Re Bellcore: Clarification to Item #11. Instead of legislative/regulated, it should read "Washington Regulatory Support Division."

Response: The Company is not in possession of the requested information. BST has asked Bellcore to provide the requested information and Bellcore has stated that they will provide the information.

Bellcore has received an enormous number of requests from all seven regions and is processing them as quickly as possible. Bellcore has agreed to provide the information to the Company in sufficient time for the information or a status report on or before July 19, 1993.

Date Provided: July 12, 1993

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