PLORIDA PUBLIC SERVICE COMMISSION

Fletcher Building 101 East Gaines Street Tallahassee, Florida 32399-0850

MENORANDUM

August 29, 1991

TO : DIRECTOR, DIVISION OF RECORDS AND REMORTING

FROM : DIVISION OF COMMUNICATIONS [CHECK]

DIVISION OF LEGAL SERVICES [GREEN]

RE: DOCKET MO. 910805-TL - PROPOSED TARIFF FILING ADDS
OFFERINGS FOR TELECOMMUNICATIONS DEVICES FOR THE DEAF
(TDD) USERS AND LOWERS RATES BY SOUTHERN BELL TELEPHONE
AND TELEGRAPH COMPANY (T-91-311 FILED JUNE 28, 1991)

AGENDA: SEPTEMBER 10, 1991 - CONTROVERSIAL - PARTIES MAY

PARTICIPATE

CRITICAL DATES: COMPANY REQUESTED EFFECTIVE DATE:

SEPTEMBER 16, 1991

SPECIAL INSTRUCTIONS: MONE

DISCUSSION OF ISSUES

ISSUE 1: Should Southern Bell Telephone and Telegraph Company's proposed tariff filing to 1) add offerings for Telecommunications Devices for the Deaf (TDD) users and to 2) obsolete (i.e., allow current customer's to continue to subscribe to the service while not allowing any new customers to subscribe) and to lower the monthly installment payment and the monthly lease rates for the Portable Communications Terminal be approved?

RECOMMENDATION: Yes. Southern Bell Telephone and Telegraph Company's proposed tariff filing to 1) add offerings for Telecommunications Devices for the Deaf (TDD) users and to 2) obsolete and to lower the monthly installment payment and the monthly lease rates should be approved. The effective date should be August 28, 1991. The Company should notify customers that the Portable Communications Terminal will become obsolete, with the anticipated elimination date to be September 1, 1994. This filing will become final if no hearing is requested by 21 days from the date of the final order.

STAFF ANALYSIS: On June 26, 1991, Southern Bell Telephone and Telegraph Company (Southern Bell) filed revisions to its General Subscriber Services Tariff to add new offerings for

DOCUMENT NUMBER-DATE

08686 AUC 29 1991

Telecommunication Devices for the Deaf (TDD) users. A TDD is a typewriter type piece of equipment whereby a hearing impaired person can communicate with another person. Southern Bell currently offers the Portable Communications Terminal to their hearing and speech impaired customers. This is an older piece of technology and the Company plans to replace the Portable Communications Terminal by offering the UltraTec #200 and the UltraTec #400, which use a more advanced technology.

The new products introduced by Southern Bell are as follows:

- (1) UltraTec Telecommunications Device for the Deaf #200
- (2) UltraTec Telecommunications Device for the Deaf #400
- (3) Walker Volume Control Handset
- (4) Walker Clarity Volume Control Telephone Set
- (5) Tel-Ease Telephone

The UltraTec Telecommunications Device for the Deaf #200 is the same as the previously tariffed Portable Communication Terminal for hearing and speech impaired individuals except that this new equipment has an enhanced software package which includes a voice announcer, 8K memory, and a nine message buffer. The portable Communications Terminal has only a 2K memory and a one message buffer.

The UltraTec Telecommunications Device for the Deaf #400 is a small light weight and portable TDD with both visual and printing capabilities. It can be connected to the telephone network to transmit a "conversation" to another person with a TDD. "Conversations" can be viewed on the screen and printed on a paper tape. This equipment includes an answering machine with remote message retrieval capability and the other enhancements mentioned above with the new TDD #200.

The Walker Volume Control Handset is a handset whereby a hearing impaired person can control the volume. This handset is compatible with both electric and electronic telephone sets.

The Walker Clarity Volume Control Telephone Set is hearing-aid adaptable and has volume/clarity control in the handset for the hearing impaired. It also has a visual/tone ringer for the hearing impaired.

The Clarity telephone and the Volume Control Handset are manufactured by Walker Equipment Corp. and distributed by John Oram Distribution Company. The TDD #200 and TDD #400 are manufactured and distributed by UltraTec.

The Tel-Ease Telephone set has volume control in the handset for the hearing impaired, a visual/tone ringer also for the hearing impaired, and large button touchtone pads for the visually impaired. The Tel-Ease telephone set is manufactured and distributed by Communications Products and Equipment Company.

The company proposes to offer this equipment through the Special Assistance Bureau currently located in Florida. Customers will be able to reach this bureau toll free by voice by calling (800) 257-5400 or by TDD by calling (800) 432-4169. The representative will assist customers with inquires on the equipment and answer any additional questions. The equipment will be provided at cost with no rate of return which is consistent with Docket No. 830202-TP, Order No, 13906, and will be available on an outright sale option which provides both a one-time payment price and a thirty-six month installment payment plan, or a month-to-month lease option. The month-to-month option is slightly higher than the monthly installment plan due to maintenance, capital cost factors, installation and removal of equipment factors.

The leased monthly sale price rate, 36 month installment plan rate, lease rate and their respective proposed costs are as follows:

Product	Sale Price Rate	Sale Price Cost	36 Month Installment Plan Rate	36 Month Install- ment Plan Cost	Lease Rate	Lease Cost
UltraTec TDD #200	\$ 365.90	\$ 365.90	\$ 10.16	\$ 10.16	\$ 8.83	\$ 8.83
UltraTec TDD #400	404.86	404.86	11.25	11.25	9.23	9.23
Walker Volume Control Handset	58.48	58.48	1.62	1.62	1.29	1.29
Walker Clarity Volume Control Telephone	114.73	114.73	3.19	3.19	2.83	2.83
Tel-Ease Telephone	84.13	84.13	2.34	2.34	2.43	2.43

Southern Bell's cost study provides costs for five products for hearing impaired customers. Southern Bell's cost study is similar to previous sale and lease studies. Leased items utilized the CAPCOST and GENCAP programs to develop monthly costs. These programs are long run incremental cost study programs. Southern Bell used a long run incremental cost methodology to develop the cost for the TDD equipment. Long run incremental cost is usually

used by Southern Bell for developing rate elements. Incremental costs, in this instance, reflect the cost that will be incurred to provide the service.

Staff has no concerns regarding the costs of the TDD equipment. The life estimates of the new equipment is reasonable with the life of the Clarity Telephone, UltraTec TDD #200, and the UltraTec TDD #400 estimated to be at six years. The life estimates for the Volume Control Handset and the Tel-Ease Telephone is eight and five years, respectively. The month-to-month lease option is based upon the same material costs as the sale option, plus various loadings such as sales expense, shipping, and warranty expense which are not included in the sale price option. All material prices were provided by North Supply and are inflated with a three year (1991 through 1993) levelized factor of 1.0586. Sale item and lease item costs are developed on attached workpapers identified as Attachment A.

In addition to Southern Bell's proposed tariff filing adding additional offerings for TDD users, the filing also reduces the installment payment and the monthly lease rates for the Portable Communications Terminal. Since this equipment is no longer available from the vendor, the Company proposes to obsolete the service (i.e., not allowing any new customers to subscribe to the service but allowing existing customers to keep the service) effective August 28, 1991 and to totally eliminate the service by September 1, 1994. Therefore, the service will be discontinued when all current subscribers have completed their installment payments. Currently there are 314 customers subscribing to the Portable Communications Terminal: 156 customers on the 36 month installment plan and 158 customers on the month to month lease plan. These customers will continue to subscribe to the month-to-month lease option until September 1, 1994 when the Company proposes to eliminate the service.

Customers who are on the installment option will complete their installment plans at the reduced rates. Currently, customers are paying \$375.82 for the sale price on the Portable Communications Terminal, \$10.44 for the 36 month installment plan, and \$10.96 for the monthly lease option, plus a \$9.38 non-recurring charge. Under the Company's proposal to obsolete the service and to lower the installment plan and lease option rates, these rates would decrease and the customer would pay \$9.40 for the installment plan and \$9.97 for the lease plan. After the service becomes obsolete, no new customers will be able to subscribe and hence no customers will be able to purchase the old equipment.

Staff has no concerns with the filing regarding the costs of the TDD equipment or obsoleting the old technology. As stated previously, the equipment will be provided at cost, consistent with Order No. 13906. Therefore, based on the information presented in the docket, staff recommends that Southern Bell's proposed tariff filing to add offerings for TDD users and to obsolete and to lower the monthly installment payment and the monthly lease rates for the Portable Communications Terminal should be approved on the basis submitted.

ISSUE 2 Should this docket be closed?

RECOMMENDATION: Yes, with the adoption of staff's recommendation in Issue 1, this docket should be closed.

910805.MHC

T-91-311
Southern Bell - Florida
Attachment E.1
Page 6 of 21

PRODUCTS FOR THE HANDICAPPED

DEVELOPMENT OF SALES COSTS

ITEM 1:

CLARITY VOLUME CONTROL

TELEPHONE SET

COST STUDY 910674

COMPANY SOUTHERN BELL

WORKPAPER 10

PAGE 1 OF 5

DATE 5-6-91

IT	en description	SOURCE	AMOUNT
	MATERIAL PRICE	NORTH SUPPLY	\$93.75
	SHIPPING	UPS	\$2.37
3	3 YR LEVELIZED INFLATION FACTOR		
	FOR MATERIAL	WP 40 L11 (FEN)	1.0586
•	VENDOR BILLING (WITH INFLATION)	(L1+L2) *L3	\$101.75
5	ADMINISTRATION FACTOR	BSS P&E	0.0347
6	3 YR LEVELIZED INFLATION FACTOR		
	POR LABOR	WP 40 L11 (FER)	1.0694
7	ADMINISTRATIVE EXPENSE	(L1+L2) *L5*L6	\$3.57
	WARRANTY EXPENSE	WP 30 L7	\$0.23
9	SPECIAL ASSISTANCE BUREAU (SAB)		
	CONTACT TIME (HOURS)	SAB	0.25
	SAB LABOR COST PER HOUR	BSS P&E	\$27.69
11	SALES EXPENSE	L6*L9*L10	\$7.40
12	OPERATING EXPENSE	L7+L8+L11	\$11.20
13	TOTAL EXCLUDING GRT	L4+L12	\$112.95
	GROSS RECEIPTS TAX (GRT) FACTOR	BSS P&E	0.0158
15	MINIMUM SALES PRICE	L13+(L13*L14)	\$114.73

T - 91 - 311
Southern Bell - Florida
Attachment E.1
Page 7 Of 21

PRODUCTS FOR THE HANDICAPPED

DEVELOPMENT OF SALES COSTS ITEM 2: WALKER VOLUME CONTROL HANDSET STATE SOUTHERN BELL
WORKPAPER 10
PAGE 2 OF 5
DATE 5-6-91

ITI	EM DESCRIPTION	SOURCE	AMOUNT
1	NATERIAL PRICE	NORTH SUPPLY	\$43.75
100000	SHIPPING	UPS	\$1.90
3	3 YR LEVELIZED INFLATION FACTOR		
	FOR MATERIAL	WP 40 L11 (FEN)	1.0586
4	VENDOR BILLING (WITH INFLATION)	(L1+L2) *L3	\$48.33
5	ADMINISTRATION FACTOR	BSS P&E	0.0347
6	3 YR LEVELIZED INFLATION FACTOR		
	FOR LABOR	WP 40 L11 (FER)	1.0694
7	ADMINISTRATIVE EXPENSE	(L1+L2) *L5*L6	\$1.69
	WARRANTY EXPENSE	WP 30 L7	\$0.15
9	SPECIAL ASSISTANCE BUREAU (SAB)		
	CONTACT TIME (HOURS)	SAB	0.25
	SAB LABOR COST PER HOUR	BSS P&E	\$27.69
11	SALES EXPENSE	L6*L9*L10	\$7.40
12	OPERATING EXPENSE	L7+L8+L11	\$9.24
13	TOTAL EXCLUDING GRT	L4+L12	\$57.57
	GROSS RECEIPTS TAX (GRT) FACTOR	BSS P&E	0.0158
15	MINIMUM SALES PRICE	L13+(L13*L14)	\$58.48

T - 91 - 311
Southern Bell - Florida
Attachment E.1
Page 8 of 21

PRODUCTS FOR THE HANDICAPPED

DEVELOPMENT OF SALES COSTS

ITEM 3:

ULTRATEC

TDD 200

COST STUDY 910674

STATE SOUTHERN BELL

WORKPAPER 10

PAGE 3 OF 5

DATE 5-6-91

ITI	DESCRIPTION	SOURCE	AMOUNT
	NATERIAL PRICE	NORTH SUPPLY	\$319.00
10 17 5 5 Line 12 10	SHIPPING	UPS	\$2.78
3	3 YR LEVELIZED INFLATION FACTOR		
	FOR MATERIAL	WP 40 L11 (FEN)	1.0586
4	VENDOR BILLING (WITH INFLATION)	(L1+L2) *L3	\$340.64
5	ADMINISTRATION FACTOR	BSS P&E	0.0347
6	3 YR LEVELIZED INFLATION FACTOR	333 342	
	FOR LABOR	WP 40 L11 (FER)	1.0694
7	ADMINISTRATIVE EXPENSE	(L1+L2)*L5*L6	\$11.94
•	WARRANTY EXPENSE	WP 30 L7	\$0.23
9	SPECIAL ASSISTANCE BUREAU (SAB)		
	CONTACT TIME (HOURS)	SAB	0.25
10	SAB LABOR COST PER HOUR	BSS P&E	\$27.69
11	SALES EXPENSE	L6*L9*L10	\$7.40
12	OPERATING EXPENSE	L7+L8+L11	\$19.57
13		L4+L12	\$360.21
	GROSS RECEIPTS TAX (GRT) FACTOR	BSS P&E	0.0158
15	MINIMUM SALES PRICE	L13+(L13+L14)	\$365.90

T-91-311
Southern Bell - Florida
Attachment E.1
Page 9 of 21

PRODUCTS FOR THE HANDICAPPED

DEVELOPMENT OF SALES COSTS

ITEM 4:

ULTRATEC

TDD 400

COST STUDY
910674
STATE SOUTHERN BELL
WORKPAPER
10
PAGE 4 OF 5
DATE 5-6-91

ITE	en description	SOURCE	AMOUNT
1	NATERIAL PRICE	NORTH SUPPLY	\$354.00
	SHIPPING	UPS	\$2.78
3	3 YR LEVELIZED INFLATION FACTOR		
	FOR MATERIAL	WP 40 L11 (FEN)	1.0586
4	VENDOR BILLING (WITH INFLATION)	(L1+L2) *L3	\$377.69
5	ADMINISTRATION FACTOR	BSS P&E	0.0347
6	3 YR LEVELIZED INFLATION FACTOR		.*
	POR LABOR	WP 40 L11 (FER)	1.0694
7	ADMINISTRATIVE EXPENSE	(L1+L2) *L5*L6	\$13.24
8	WARRANTY EXPENSE	WP 30 L7	\$0.23
9	SPECIAL ASSISTANCE BUREAU (SAB)		
	CONTACT TIME (HOURS)	SAB	0.25
10	SAB LABOR COST PER HOUR	BSS P&E	\$27.69
11	SALES EXPENSE	L6*L9*L10	\$7.40
12	OPERATING EXPENSE	L7+L8+L11	\$20.87
13	TOTAL EXCLUDING GRT	L4+L12	\$398.56
14	GROSS RECEIPTS TAX (GRT) FACTOR	BSS P&E	0.0158
15	MINIMUM SALES PRICE	L13+(L13*L14)	\$404.86

T-91-311

PRODUCTS FOR THE HANDICAPPED

DEVELOPMENT OF SALES COSTS ITEM 5: TEL-BASE TELEPHONE COST STUDY 910674
STATE SOUTHERN BELL
WORKPAPER 10
PAGE 5 OF 5
DATE 5-6-91

ITE	M DESCRIPTION	SOURCE	AMOUNT
	MATERIAL PRICE	NORTH SUPPLY	\$66.25
the second	SHIPPING	UPS	\$2.37
3	3 YR LEVELIZED INFLATION FACTOR		
	FOR NATERIAL	WP 40 L11 (FEN)	1.0586
4 .	VENDOR BILLING (WITH INFLATION)	(L1+L2) *L3	\$72.64
5	ADMINISTRATION FACTOR	BSS P&E	0.0347
6	3 YR LEVELIZED INFLATION FACTOR		
	FOR LABOR	WP 40 L11 (FER)	1.0694
.7	ADMINISTRATIVE EXPENSE	(L1+L2) *L5*L6	\$2.55
•	WARRANTY EXPENSE	WP 30 L7	\$0.23
		WF 30 E/	40.23
9	SPECIAL ASSISTANCE BUREAU (SAB)		
	CONTACT TIME (HOURS)	SAB	0.25
10	SAB LABOR COST PER HOUR	BSS P&E	\$27.69
11	SALES EXPENSE	L6*L9*L10	\$7.40
12	OPERATING EXPENSE	L7+L8+L11	\$10.18
13	TOTAL EXCLUDING GRT	L4+L12	\$82.82
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	GROSS RECEIPTS TAX (GRT) FACTOR	BSS P&E	0.0158
15	MINIMUM SALES PRICE	L13+(L13*L14)	\$84.13

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GENCAP OUTPUTS: LEASE OPTION ITEM 1 CLARITY VOLUME CONTROL TELEPHONE SET	COST STUDY COMPANY WORKPAPER PAGE DATE	910674 SOUTHERN BELI 20 1 OF 10 5-6-91		L
INVESTMENT VENDOR BILLING TELCO INST. ENGR. AND LABOR COSTS TELCO REMOVAL ENGR. AND LABOR COSTS VENDOR AND OTHER REMOVAL CHARGES MISC. COMMON EQUIP. 4 POWER SALES TAX SUPPLY EXPENSE STOCK EXPENSE	\$ \$ \$ \$ \$	1.75 7.33 7.33 2.51 0.00 5.22 0.00 0.00	(1) (2) (3) (4) (5) (6) (7) (8)	
ANNUAL OPERATING COSTS MAINTENANCE ADMINISTRATIVE EXPENSE AD VALOREM & 'OTHER TAXES' LAND ANNUAL COST BUILDING ANNUAL COST OUTSIDE VENDOR EXPENSE	\$ \$ \$ \$ \$ \$ \$ \$ \$	1.34 4.35 1.50 0.00 0.00	(10) (11) (12) (13) (14) (15)	
TOTAL ANNUAL OPERATING COSTS	\$	7.20	(16)	
CAPITAL COSTS DEPRECIATION COST OF MONEY (RETURN) INCOME TAX OTHER (GRT&LC, ETC.)	\$1 \$ \$	0.69 1.83 5.36 0.71	(17) (18) (19) (20)	
TOTAL ANNUAL CAPITAL COSTS	\$3	B.60	(21)	
MONTHLY TOTALS TOTAL MONTHLY CAPITAL COSTS TOTAL MONTHLY OPERATING COSTS		3.22	(22) (23)	
TOTAL MONTHLY COSTS		3.82	(24)	
NONRECURRING COSTS NONRECURRING EXPENSES NONTHLY EQUIV. OF NONRECURRING COSTS		0.00	(25)	
TOTAL EQUIVALENT MONTHLY COSTS		3.82	(26)	
MAINTENANCE CALCULATIONS calculated with maintenance factor calculated with Telco annual maint. hours		0.00 L.34		

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GENCAP INPUTS: LEASE OPTION ITEM 1 CLARITY VOLUME CONTROL TELEPHONE SET		COST STUDY COMPANY WORKPAPER PAGE DATE	910674 SOUTHERN BELI 20 2 OF 10 5-6-91
Telco Installation Rate Telco C.O. & Test Rate Telco Maintenance Rate Sales Tax Factor Gross Receipts Factor Discount Rate Account Administration Factor Land Loading Factor Land Annual Cost Factor Utilization Factor	U	Telco Clerical Rate Telco Removal Rate Telco Engineering I Other Tax Factor Cost of Money Misc. Common Eq. & Supply Expense Factor Outside Vend Exp Factor Building Loading Factor Baldg Annual Cost Factor	Rate 0 0.0121 0.1352 Pwr 0 tor 0 actor 0 actor 0
INSTALLATION		T part	
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0 0 0.25 0	Vendor Labor Charge Vendor Engr. Charge Other Costs	0 0 0 2.37
REMOVAL			
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0 0 0.25 0	Vendor Labor Charge Vendor Engr. Charge Other Costs	
ANNUAL MAINTENANCE			
Telco Field Hours Telco C.O. & Test Hours	0	Telco Clerical Hour Maintenance Materia	
OTHER			
Material Cost Stock Factor Lvlzd Infl. Factor from Fi Lvlzd Infl. Factor from Fi	O Er	# Years to Spread C Non-Recurring Exper 1.0694 1.0586	Costs 1
CARCOST FACTORS			

CAPCOST FACTORS

Investment	Depreciation	16.67
	Income Tax	4.32
Investment	Cost of Money	9.53

T-91-311

GENCAP OUTPUTS: LEASE OPTION ITEM 2 WALKER VOLUME CONTROL HANDSET	COST STUDY COMPANY WORKPAPER PAGE DATE	9106 SOUT 20 3 OF 5-6-	HERN BELL
INVESTMENT VENDOR BILLING TELCO INST. ENGR. AND LABOR COSTS TELCO REMOVAL ENGR. AND LABOR COSTS VENDOR AND OTHER REMOVAL CHARGES MISC. COMMON EQUIP. 4 POWER SALES TAX SUPPLY EXPENSE STOCK EXPENSE	\$ \$ \$ \$ \$ \$ \$	8.33 7.33 7.33 2.01 0.00 2.48 0.00	(1) (2) (3) (4) (5) (6) (7) (8)
TOTAL ADJUSTED INVESTMENT	\$6	7.47	(9)
ANNUAL OPERATING COSTS MAINTENANCE ADMINISTRATIVE EXPENSE AD VALOREM & 'OTHER TAXES' LAND ANNUAL COST BUILDING ANNUAL COST OUTSIDE VENDOR EXPENSE	\$ \$ \$	0.61 2.37 0.82 0.00 0.00	(10) (11) (12) (13) (14) (15)
TOTAL ANNUAL OPERATING COSTS	\$	3.79	(16)
CAPITAL COSTS DEPRECIATION COST OF MONEY (RETURN) INCOME TAX OTHER (GRT&LC, ETC.)	\$	8.43 6.66 3.02 0.35	(17) (18) (19) (20)
TOTAL ANNUAL CAPITAL COSTS		8.46	(21)
MONTHLY TOTALS TOTAL MONTHLY CAPITAL COSTS TOTAL MONTHLY OPERATING COSTS	\$	1.54 0.32	(22) (23)
TOTAL MONTHLY COSTS	\$	1.85	(24)
NONRECURRING COSTS NONRECURRING EXPENSES NONTHLY EQUIV. OF NONRECURRING COSTS		0.00	(25)
TOTAL EQUIVALENT MONTHLY COSTS		1.85	(26)
MAINTENANCE CALCULATIONS calculated with maintenance factor calculated with Telco annual maint. hours		0.00 0.61	

PRODUCTS	FOR THE	HANDICAPPED	T-91-	311
GENCAP INPUTS: LEASE OPTION ITEM 2 WALKER VOLUME CONTROL HANDSET		COST S' COMPAN' WORKPAI PAGE DATE	Y SOUTHER	
Telco Installation Rate Telco C.O. & Test Rate Telco Maintenance Rate Sales Tax Factor Gross Receipts Factor Discount Rate Account Administration Factor Land Loading Factor Land Annual Cost Factor Utilization Factor	0 0 0 0.0513 0.0158 0.1352 2311C 0.0347	Telco Clerical Telco Removal Telco Engineer Other Tax Fac Cost of Money Misc. Common I Supply Expense Outside Vend I Building Load Bldg Annual Co Maintenance Fa	Rate ring Rate tor Eq. & Pwr Factor Exp Factor ing Factor	27.69 0 0 0.0121 0.1352 0 0 0 0
INSTALLATION				
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0.25 0	Vendor Labor (Vendor Engr. (Other Costs	Charge Charge	1.9
REMOVAL				
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0 0 0.25 0	Vendor Labor (Vendor Engr. (Other Costs		0 0 1.9
ANNUAL MAINTENANCE				
Telco Field Hours Telco C.O. & Test Hours	0	Telco Clerical Maintenance Ma		0.01 0.29
OTHER				
Material Cost Stock Factor Lwlsd Infl. Factor from FI Lwlsd Infl. Factor from FI	43.75 0 ER EN	# Years to Spr Non-Recurring 1.0694 1.0586	read Costs Expense	0
CAPCOST FACTORS				
Investment Depreciation Investment Income Tax Investment Cost of Money	12.5 4.47 9.87	¥		

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GENCAP OUTPUTS: LEASE OPTION ITEM 3 ULTRATEC TDD 200	COST STUDY COMPANY WORKPAPER PAGE DATE	91067 SOUTH 20 5 OF 5-6-9	IERN BEI
INVESTMENT VENDOR BILLING TELCO INST. ENGR. AND LABOR COSTS TELCO REMOVAL ENGR. AND LABOR COSTS VENDOR AND OTHER REMOVAL CHARGES MISC. COMMON EQUIP. & POWER SALES TAX SUPPLY EXPENSE STOCK EXPENSE	\$ \$ \$ \$1 \$	0.64 7.33 7.33 2.94 0.00 7.47 0.00	(1) (2) (3) (4) (5) (6) (7) (8)
TOTAL ADJUSTED INVESTMENT	\$37	5.71	(9)
ANNUAL OPERATING COSTS MAINTENANCE ADMINISTRATIVE EXPENSE AD VALOREM & 'OTHER TAXES' LAND ANNUAL COST BUILDING ANNUAL COST OUTSIDE VENDOR EXPENSE	\$1 \$ \$ \$ \$	1.81 3.17 4.55 0.00 0.00	(10) (11) (12) (13) (14) (15)
TOTAL ANNUAL OPERATING COSTS	\$1	9.53	(16)
CAPITAL COSTS DEPRECIATION COST OF MONEY (RETURN) INCOME TAX OTHER (GRT&LC, ETC.)	\$3 \$1	2.63 5.80 6.23 2.12	(17) (18) (19) (20)
TOTAL ANNUAL CAPITAL COSTS	\$11	6.79	(21)
MONTHLY TOTALS TOTAL MONTHLY CAPITAL COSTS TOTAL MONTHLY OPERATING COSTS		9.73	(22) (23)
TOTAL MONTHLY COSTS		1.36	(24)
MONRECURRING COSTS NONRECURRING EXPENSES MONTHLY EQUIV. OF MONRECURRING COSTS		0.00	(25)
TOTAL EQUIVALENT MONTHLY COSTS	\$1:	1.36	(26)
MAINTENANCE CALCULATIONS calculated with maintenance factor calculated with Telco annual maint. hours	\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (0.00 1.81	

PRODUCTS	FOR THE	HANDICAPPED	T-91	311
GENCAP INPUTS: LEASE OPTION ITEM 3 ULTRATEC TDD 200		COST (COMPA) WORKP, PAGE DATE	APER 20 6 OF	IERN BELL 10
Telco Installation Rate Telco C.O. & Test Rate Telco Maintenance Rate Sales Tax Factor Gross Receipts Factor Discount Rate Account Administration Factor Land Loading Factor Land Annual Cost Factor Utilization Factor	0 0 0 0.0513 0.0158 0.1352 2311C 0.0347	Telco Clerica Telco Remova Telco Engine Other Tax Fac Cost of Mone Misc. Common Supply Expens Outside Vend Building Load Bldg Annual Maintenance	Rate ering Rate ctor Fag. & Pwr se Factor Exp Factor ling Factor cost Factor	27.69 0 0.0121 0.1352 0 0 0
INSTALLATION				
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0.25 0	Vendor Labor Vendor Engr. Other Costs	Charge Charge	0 0 2.78
REMOVAL				
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0 0 0.25 0	Vendor Labor Vendor Engr. Other Costs		0 0 2.78
ANNUAL HAINTENANCE				
Telco Field Hours Telco C.O. & Test Hours	0	Telco Clerica Maintenance P		0.01 1.42
OTHER #				
Material Cost Stock Factor Lvlsd Infl. Factor from FI Lvlsd Infl. Factor from FI	319 0 ER EN	# Years to Sy Non-Recurring 1.0694 1.0586	pread Costs Expense	0

CAPCOST FACTORS

Investment	Depreciation	16.67
	Income Tax	4.32
Investment	Cost of Money	9.53

Southern Bell - Florida Attachment E.1 Page 17 of 21

PRODUCTS FOR THE HANDICAPPED

T-91-311

GENCAP OUTPUTS: LEASE OPTION ITEM 4 ULTRATEC TDD 400	COST STUDY COMPANY WORKPAPER PAGE DATE	9106 SOUTI 20 7 OF 5-6-9	HERN BELL
INVESTMENT VENDOR BILLING TELCO INST. ENGR. AND LABOR COSTS TELCO REMOVAL ENGR. AND LABOR COSTS VENDOR AND OTHER REMOVAL CHARGES MISC. COMMON EQUIP. & POWER SALES TAX SUPPLY EXPENSE STOCK EXPENSE	\$ \$ \$ \$1	7.69 7.33 7.33 2.94 0.00 9.38 0.00	(1) (2) (3) (4) (5) (6) (7) (8)
TOTAL ADJUSTED INVESTMENT	\$41	4.67	(9)
ANNUAL OPERATING COSTS MAINTENANCE ADMINISTRATIVE EXPENSE AD VALOREM & 'OTHER TAXES' LAND ANNUAL COST BUILDING ANNUAL COST OUTSIDE VENDOR EXPENSE	\$1 \$ \$ \$ \$	1.81 4.54 5.02 0.00 0.00	(10) (11) (12) (13) (14) (15)
TOTAL ANNUAL OPERATING COSTS	\$2	1.37	(16)
CAPITAL COSTS DEPRECIATION COST OF MONEY (RETURN) INCOME TAX OTHER (GRT&LC, ETC.)	\$3 \$1 \$		(17) (18) (19) (20)
TOTAL ANNUAL CAPITAL COSTS	\$12	8.89	(21)
MONTHLY TOTALS TOTAL MONTHLY CAPITAL COSTS TOTAL MONTHLY OPERATING COSTS		0.74 1.78	(22) (23)
TOTAL MONTHLY COSTS		2.52	(24)
NONRECURRING COSTS NONRECURRING EXPENSES. NONTHLY EQUIV. OF NONRECURRING COSTS		0.00	(25)
TOTAL EQUIVALENT MONTHLY COSTS		2.52	(26)
MAINTENANCE CALCULATIONS calculated with maintenance factor calculated with Telco annual maint. hours		0.00 1.81	

GENCAP INPUTS: LEASE OPTION ITEM 4 ULTRATEC TDD 400		COST STUDY COMPANY WORKPAPER PAGE DATE	910674 SOUTHERN BELL 20 8 OF 10 5-6-91
Telco Installation Rate Telco C.O. & Test Rate Telco Maintenance Rate Sales Tax Factor Gross Receipts Factor Discount Rate Account Administration Factor Land Loading Factor Land Annual Cost Factor Utilization Factor	0 0 0.0513 0.0158 0.1352 2311C 0.0347 0	Telco Clerical Rate Telco Removal Rate Telco Engineering Other Tax Factor Cost of Money Misc. Common Eq. & Supply Expense Factor Outside Vend Exp Building Loading Bldg Annual Cost Buintenance Factor	Rate 0 0.0121 0.1352 Pwr 0 ctor 0 Pactor 0 Pactor 0 Pactor 0
INSTALLATION			
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0 0 0.25 0	Vendor Labor Charg Vendor Engr. Charg Other Costs	ge 0 ge 0 2.78
REMOVAL			
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0 0 0.25 0	Vendor Labor Charg Vendor Engr. Charg Other Costs	ge 0 ge 0 2.78
ANNUAL MAINTENANCE			
Telco Field Hours Telco C.O. & Test Hours	0	Telco Clerical Hou Maintenance Materi	
ONIER			
Material Cost Stock Factor Lvlsd Infl. Factor from Fi Lvlsd Infl. Factor from Fi	354 0 ER EN	# Years to Spread Non-Recurring Expe 1.0694 1.0586	Costs 1 ense 0
CAPCOST FACTORS			

16.67 4.32 9.53

Investment Depreciation Investment Income Tax Investment Cost of Money

GENCAP OUTPUTS: LEASE OPTION ITEM 5 TEL-EASE TELEPHONE SET	COST STUDY COMPANY WORKPAPER PAGE DATE	91067 SOUTH 20 9 OF 5-6-9	HERN BELL
INVESTMENT VENDOR BILLING TELCO INST. ENGR. AND LABOR COSTS TELCO REMOVAL ENGR. AND LABOR COSTS VENDOR AND OTHER REMOVAL CHARGES MISC. COMMON EQUIP. & POWER SALES TAX SUPPLY EXPENSE STOCK EXPENSE	\$ \$ \$ \$ \$ \$		(1) (2) (3) (4) (5) (6) (7) (8)
ANNUAL OPERATING COSTS MAINTENANCE ADMINISTRATIVE EXPENSE AD VALOREM & 'OTHER TAXES' LAND ANNUAL COST BUILDING ANNUAL COST OUTSIDE VENDOR EXPENSE	******	1.31 3.31 1.14 0.00 0.00	(10) (11) (12) (13) (14) (15)
TOTAL ANNUAL OPERATING COSTS	\$	5.76	(16)
CAPITAL COSTS DEPRECIATION COST OF MONEY (RETURN) INCOME TAX OTHER (GRT&LC, ETC.)	Ş	8.86 8.73 3.96 0.59	(17) (18) (19) (20)
TOTAL ANNUAL CAPITAL COSTS	\$3	2.15	(21)
MONTHLY TOTALS TOTAL MONTHLY CAPITAL COSTS TOTAL MONTHLY OPERATING COSTS	\$	2.68 0.48	(22) (23)
TOTAL MONTHLY COSTS	\$:	3.16	(24)
NONRECURRING COSTS NONRECURRING EXPENSES MONTHLY EQUIV. OF NONRECURRING COSTS	\$(0.00	(25)
TOTAL EQUIVALENT MONTHLY COSTS	\$:	3.16	(26)
MAINTENANCE CALCULATIONS calculated with maintenance factor calculated with Telco annual maint. hours		0.00	

PRODUCTS FOR THE HANDICAPPED T - 91 - 311

GENCAP INPUTS: LEASE OPTION		COST STUDY COMPANY	SOUTHERN BELL
TEL-BASE TELEPHONE SET		WORKPAPER PAGE DATE	10 OF 10
Telco Installation Rate Telco C.O. & Test Rate Telco Maintenance Rate	0	Telco Clerical Rat Telco Removal Rate Telco Engineering	0 Rate 0
Sales Tax Factor Gross Receipts Factor Discount Rate Account	0.0513 0.0158 0.1352 2311C	Other Tax Factor Cost of Money Misc. Common Eq. & Supply Expense Fac	0.1352 Pwr 0
Administration Factor Land Loading Factor Land Annual Cost Factor Utilization Factor	0.0347	Outside Vend Exp F Building Loading F Bldg Annual Cost F Maintenance Factor	actor 0 actor 0 actor 0
INSTALLATION			
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0.25	Vendor Labor Charge Vendor Engr. Charge Other Costs	0 0 2.73
REMOVAL			
Telco Field Hours Telco C.O. & Test Hours Telco Clerical Hours Telco Engineering Hours	0 0 0.25 0	Vendor Labor Charge Vendor Engr. Charge Other Costs	
ANNUAL MAINTENANCE			
Telco Field Hours Telco C.O. & Test Hours	0	Telco Clerical Hou Maintenance Materia	
OTHER			
Material Cost Stock Factor Lvlzd Infl. Factor from Fi Lvlzd Infl. Factor from Fi		# Years to Spread (Non-Recurring Expert) 1.0694 1.0586	Costs 1
CAPCOST FACTORS			
Towardment Dennesdation	20		

Investment	Depreciation	20
Investment	Income Tax	4.2
Investment	Cost of Money	9.26

SUMMARY OF RESULTS

COST STUDY 910674
COMPANY SOUTHERN BELL
PAGE 1 OF 1
DATE 5-6-91

		LEASED	SALE
		MONTHLY	TOTAL
ITEM	DESCRIPTION	COST	COST
1	Clarity Volume Control Telephone Set	\$3.82	\$114.73
2	Walker Volume Control Handset	\$1.85	\$58.48
3	UltraTec TDD #200	\$11.36	\$365.90
•	UltraTec TDD #400	\$12.52	\$404.86
5	Tel-Ease (Big Button) Telephone Set	\$3.16	\$84.13

- NOTE 1. The above costs are based on three year (1991 through 1993) levelised material prices.
- NOTE 2. The above "Leased Monthly Cost" include cost of money as shown below by item.

ITEM	co	ST	OF MONEY
1	Clarity Volume Control Telephone Set		\$0.99
2	Walker Volume Control Handset		\$0.56
3	UltraTec TDD #200		\$2.98
4	UltraTec TDD #400		\$3.29
5	Tel-Ease (Big Button) Telephone Set		\$0.73

Southern Bell - Florida Attachment E.2 Page 3 of 16

PRODUCTS FOR THE HANDICAPPED

Study No. 900925.2 Page 1 of 1 Date: January 21, 1991

Summary of Results - Southern Bell

Sale Lease Description Monthly Total Costs Cost

\$9.97 \$338.33

Portable Communications Terminal for Deaf or Speech Impaired

The above "Lease Monthly Cost" includes a cost of money component of \$2.79.