

CENTREX - GENERAL**A. CENTREX-MATE /a/****1. Feature Descriptions**

CENTREX-MATE allows customers with Centrex services that are served from electronic Central Offices where facilities permit to add or delete selected optional features and make certain changes in the Centrex line and feature configurations of their systems. CENTREX-MATE also allows the customer to verify the assignment of features on an individual line basis or on a bulk basis to determine which stations have a particular feature and to obtain internal directory information for stations defined in the data base.

These additions, deletions, changes and verifications are made by accessing a dial-up port in the Central Office computer system which has the customer defined data base. The customer uses a 1200 bit-per-second interactive video display terminal on the customer's premises.

a. The types of changes that a customer may make via CENTREX-MATE are:**Change Station Numbers**

The customer can exchange (swap) the directory numbers associated with two or more station lines, provided the Centrex lines use the same type of signaling (rotary dial or TOUCH-TONE) and are loop start.

Change Centrex Access Treatment (CAT) Code

The customer can change the CAT code associated with a line to one of eight allowable predefined codes. The CAT code associated with a station line determines which facilities are available to the station user.

Change Line Class Code (LCC)

The customer can change the LCC associated with a line to one defined in the data base. The LCC determines the incoming and outgoing calling capabilities of a station line.

Change Facility Restriction Level (FRL) assignment

The Electronic Tandem Switching (ETS) customer can change the FRL of a line to one of eight allowable and existing predefined codes.

Change Call Pickup Group

The customer can change a station line from one existing call pickup group to another.

/a/ Rates in effect for services no longer offered for new installations

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.2

CENTREX - GENERAL (Cont'd)

A. CENTREX-MATE (Cont'd)

1. Feature Descriptions (Cont'd)

a. The types of changes that a customer may make via CENTREX-MATE are: (Cont'd)

Change Call Forwarding Busy Line/Don't Answer Assignment

The customer can change the Call Forwarding Busy Line/Don't Answer directory number assignment for a station line.

Activate/Deactivate Service on Lines

The customer can activate or deactivate service on a predetermined number of lines. Deactivated station lines within this group have a preassigned Directory Number (DN) and may have an assigned complement of features. Calls to or from deactivated lines are routed to the standard Centrex announcement or to the attendant or denied respectively. Lines deactivated in this manner continue to be billed as working lines.

Change Series Completion "hunt to" Directory Number (DN)

The customer can change the "hunt to" DN associated with the station, provided the "hunt to" DN is within the Centrex group and the CENTREX-MATE data base.

Change Call Forwarding - Don't Answer Ring Cycle Option

The customer can change the number of rings at the Centrex line before the unanswered call is forwarded. The customer has a ringing cycle choice of from one to nine rings.

Change the Direct Connect Destination Directory Number

The customer can change the destination directory number of a Centrex line equipped with the Direct Connect feature.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.2 and Original Sheet S-15.0.3

CENTREX - GENERAL (Cont'd)

A. CENTREX-MATE (Cont'd)

1. Feature Descriptions (Cont'd)

b. The following lists the optional features that can be added or deleted by the customer via CENTREX-MATE.

- Call Pickup - Stations equipped with this feature may be added to existing Call Pickup Groups only.
- Call Hold
- Call Waiting - Terminating
- Call Waiting - Originating
- Directed Call Pickup
- Call Forwarding - Busy Line
- Call Forwarding - Don't Answer
- Call Forwarding - Variable
- Cancel Call Waiting
- Series Completion Hunting
- 1-Digit Individual Speed Calling
- Automatic Callback Calling
- Inhibit ETS Queuing
- 2-Digit Universal Speed Calling

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.3

CENTREX - GENERAL (Cont'd)

A. CENTREX-MATE (Cont'd)

1. Feature Descriptions (Cont'd)

c. The following lists the verifications that a customer may make via CENTREX-MATE:

Station Verification

The customer can request the following information for a single line station:

- Centrex CAT Code
- FRL
- Call Pickup Group and Pickup Group Number
- Call Forwarding Busy Line/Don't Answer DN and Ring Cycle Option
- Active/Inactive status
- Series completion "hunt to" DN
- 1-Digit Individual Speed Calling
- Call Hold
- Call Waiting - Terminating
- Call Waiting - Originating
- Cancel Call Waiting
- Directed Call Pickup
- 2-Digit Universal Speed Calling
- Call Forwarding - Don't Answer Ring Cycle Option
- Call Forwarding - Variable
- Line Class Code
- Ring Option
- Direct Connect

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.4

CENTREX - GENERAL (Cont'd)

A. CENTREX-MATE (Cont'd)

1. Feature Descriptions (Cont'd)

c. The following lists the verifications that a customer may make via CENTREX-MATE: (Cont'd)

Search Verification

The CENTREX-MATE customer can request a list of all directory numbers having (or not having):

- Call Pickup, by Centrex line number by group
- Call Forwarding - Busy Line
- Call Forwarding - Don't Answer
- Series completion "hunt to" directory number
- Specific CAT code
- Specific Facility Restriction Level
- Active Centrex Lines
- Inactive Centrex lines
- Centrex Group Numbers
- 1-Digit Individual Speed Calling
- Call Hold
- Call Waiting-Terminating
- Call Waiting-Originating
- Cancel Call Waiting
- Directed Call Pickup
- Automatic Callback Calling
- Inhibit ETS Queueing
- Direct Connect feature (Hot Line)
- 2-Digit Universal Speed Calling
- Call Forwarding - Don't Answer Ring Cycle Option (those lines "having" only)
- Call Forwarding - Variable

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.4

CENTREX - GENERAL (Cont'd)

A. CENTREX-MATE (Cont'd)

1. Feature Descriptions (Cont'd)

d. The internal directory information that a customer may obtain via CENTREX-MATE includes:

- Station number
- Person assigned to that station
- Station location
- Organization to which the person is assigned

e. Conditions

CENTREX-MATE is provided under a Term Payment Plan. Certain station lines may be specified by the customer to be inaccessible (exempt from changes made through CENTREX-MATE). In addition, the Company reserves the right to make certain lines inaccessible through CENTREX-MATE. Changing the status of a line from accessible to inaccessible or from inaccessible to accessible must be done by the Company and a Line Rearrangement Charge specified in Tariff M.P.S.C. No. 20 R, Part 3 is applicable.

Changes entered via this feature become effective on either a priority or a delayed basis. Priority changes will normally be effective within 24 hours. Delayed transactions will normally be effective on the date specified, but not sooner than the day following the date of input into the CENTREX-MATE computer system. Each customer will be allowed four priority changes per day. The number of delayed transactions allowed varies with the number of station lines in the customer's system as follows:

<u>Number of Station Lines</u>	Number of Delayed Transactions Per Day
2-149	20
150-399	30
1000-2499	50
2500-4999	60
5000 and over	70

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.05

CENTREX - GENERAL (Cont'd)**A. CENTREX-MATE (Cont'd)****1. Feature Descriptions (Cont'd)****e. Conditions (Cont'd)**

Line verifications are provided at the time of the request for verification, but feature verifications may be processed in such a way as not to affect normal call processing in the Central Office. An indication will be given to the user via the output terminal when such a condition exists, and a periodic indication will be displayed until the office resumes processing of the search verification request.

For security of CENTREX-MATE the customer must input a valid password before CENTREX-MATE will respond to a customer request. Four passwords are provided without charge. Additional passwords are charged for based on cost.

For additional security of CENTREX-MATE changes and the integrity of the system, the Centrex line used to access the Dial-up Data Port should be a fully restricted line and should not have Call Forwarding, Call Waiting or Call Transfer capabilities. The Dial-up Data Port access line in the Central Office should be a restricted Centrex line also. This will prevent unauthorized access from outside the Centrex customer's system.

The customer must maintain a backup record of all changes, additions and deletions between update periods for re-insertion to the ESS Central Office should the office overload and lose recent change memory.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.5

CENTREX - GENERAL (Cont'd)

A. CENTREX-MATE (Cont'd)

1. Rates and Charges

a. Basic Feature Rates

Number of Station Lines	USOC	Non- recurring <u>Charge</u>	CENTREX-MATE Term Payment Periods			
			1 <u>Mo./a/</u>	36 <u>Mos.</u>	60 <u>Mos.</u>	84 <u>Mos./b/</u>
2-149		\$1,210.00	\$50.00	\$45.00	\$43.00	\$42.00
150-399		1,250.00	80.00	72.00	71.00	70.00
400-999		1,300.00	130.00	110.00	107.00	106.00
1000-2499		1,500.00	325.00	275.00	260.00	250.00
2500-4999		1,800.00	625.00	520.00	500.00	480.00
5000 & over		2,500.00	1,400.00	1,110.00	1,050.00	1,030.00

b. Miscellaneous

Nonrecurring Charges

- For Changing the Customer

 Password /c/

20.00

- Training (Maximum of four people per session)

 Initial session, charge is included in nonrecurring charge in a. preceding.

 Subsequent sessions, each

825.00

c. Termination Charges

Termination charges are equal to 50% of the monthly charges for the unexplored portion of the term payment period selected by the customer for the CENTREX-MATE feature, based on the rates in effect at the time CENTREX-MATE service is established.

/a/ Not applicable to Centrex V.

/b/ Not applicable to Centrex IV.

/c/ Applies in addition to feature change charges and/or applicable service charges as specified in Part 3, Section 1 of this Guidebook.

(C)

CENTREX - GENERAL (Cont'd)

B. STATION CALL THROUGH TEST /a/

1. General

- a. The Station Call Through Test feature allows a pre-designated Centrex station line (test station) to determine the availability status of individual trunks.
- b. The basic feature enables the test person to determine if a trunk is busy or idle.
- c. The optional busy verification feature enables the test person to "barge-in" if the trunk being tested is in use. When the test station is connected to a busy trunk, periodic bursts of tone are applied to alert the talking parties of the test person's presence.
- d. The Station Call Through Test feature is available only with Centrex systems served by Central Offices capable of providing the feature.
- e. The test station equipment must be registered in compliance with Part 68 of the F.C.C. Rules and Regulations.
- f. Station Call Through Test cannot be used to test WATS, collocated CCSA facilities, Centrex station lines or services which utilize simulated facilities.
- g. A three digit access code is required for each trunk group to be tested.
- h. The Station Call Through Test feature is provided under its own separate term payment plan.

/a/ Rates in effect for services no longer offered for new installations

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.7.

CENTREX - GENERAL (Cont'd)

B. STATION CALL THROUGH TEST (Cont'd)

2. Rates and Charges

	<u>USOC</u>	Non-recurring Charge	Station Call Through Test Term Payment Plan Periods			
			<u>1 Mo./a/</u>	<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos./b/</u>
Station Call Through Test Feature, per system /c/ /d/	X	\$2,500.00	\$ 00.00	\$ 85.00	\$ 80.00	\$ 75.00
Basic, each feature With busy verification, each feature	X	175.00	375.00	100.00	85.00	80.00
Conversion from basic feature to feature with busy verification or vice versa, the nonrecurring charge for the feature to be provided is applicable						

Termination Charges

Termination charges are equal to 50% of the monthly charges for the unexpired portion of the term payment period selected by the customer for the Station Call Through Test feature, based on the rates in effect at the time station Call Through Test service is established.

/a/ Not applicable to Centrex V

/b/ Not applicable to Centrex IV

/c/ In addition, the monthly rate and nonrecurring charges for a Centrex station line are applicable for each test station

/d/ Includes the provision of one IXX test code per feature

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.7

CENTREX - GENERAL (Cont'd)

C. MESSAGE DESK INTERFACE /a/

1. The Message Desk Interface feature provides a means of delivering call related information to customer-provided message desk equipment. The information allows message desk attendants or automated equipment to receive and handle calls intended for Centrex station clients (users) on a personalized basis for each client.
2. The call information includes the following:
 - Centrex station number called
 - Calling telephone number if it is in the same Central Office
 - Direct dialed call or Call Forwarding call
 - Type of Call Forwarding used (Busy, Don't Answer or Variable)
3. The Message Desk Interface is available only with Centrex systems served by Central Offices with the capability of providing the feature.
4. Calls are forwarded to the Message Desk over Centrex station lines, using Multi-Line Hunting arrangements, and terminating on customer-provided answering equipment designed for use with Central Office lines. Answering equipment designed for use with Central Office trunks cannot be used with the Message Desk Interface feature.
5. Call information is transmitted to customer-provided modem, controller and information display equipment over a private line channel. The customer-provided equipment must conform with the technical specifications of the Company.
6. An optional message waiting feature allows the message desk attendant or automatic equipment to initiate an audible message waiting indication to clients. When the clients attempt to use their station lines a stutter dial tone signals them to retrieve their messages.
7. The Message Desk Interface feature is provided under its own separate term payment plan.

/a/ Rates in effect for services no longer offered for new installations

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.0.8.

CENTREX - GENERAL (cont'd)**C. MESSAGE DESK INTERFACE (cont'd)**

8. Rates and Charges

USOC	Non-recurring Charge	1 Month ^{/1/}	Message Desk Interface		
			Term	Payment Plan	Periods
			36 Months	60 Months	84 Months ^{/2/}
Message Desk Interface ^{/3/} - Common equipment including Central Office data set	X	\$3,100.00	\$650.00	\$350.00	\$330.00
Message Waiting, Feature - Per station equipped, each	X	^{/4//5/}	0.30	0.25	0.20
					0.15

Termination Charges

Termination charges are equal to 50% of the monthly charges for the unexpired portion of the term payment period selected by the customer for the Message Desk Interface feature, based on the rates in effect at the time Message Desk Interface service is established.

/1/ Not applicable to Centrex V.

/2/ Not applicable to Centrex IV.

/3/ Requires a channel at rates and charges as provided via unregulated Dedicated Communications Service.

/4/ Nonrecurring charge for station line changes are specified elsewhere in this Guidebook. (C)

/5/ Does not apply if provided when the station line is installed or at the same time as other optional calling features.

CENTREX - IV /a/

A. SUSPENSION OF SERVICE

Suspension of service, except for Dormitory Service station lines, is not offered for the Centrex IV system.

B. DEFINITIONS

Add-on - permits a station user to establish a three-party conference by adding one more station line within the same system to an existing incoming Central Office call without the assistance of the attendant.

Attendant-call transfer (Incoming) - permits the transferring of incoming Central Office calls from one station line to another by the attendant.

Attendant camp-on - provides for an attendant handled Central Office call to wait on a busy station line and automatically be connected when the line becomes available.

Attendant conference - permits an attendant to establish a conference call between station lines only or station lines and a Central Office trunk.

Attendant position - provides a means of originating outgoing calls, completing incoming calls to station lines associated with the system and transferring Central Office calls from station line to station line. A console is the standard attendant position for dial systems.

Consultation hold - permits a station user who is adding another station line to a call by means of the add-on conference feature to speak privately to the station user on the station line being added before the conference connection is completed.

Dial transfer-station (Incoming) - permits a station user to transfer incoming Central Office calls to another station line within the same system without the assistance of the attendant.

Direct inward dialing - permits incoming local and toll calls to be dialed directly to station lines of a PBX system.

Direct outward dialing - permits stations of the system to dial outgoing calls to local and direct distance dialed points.

/a/ Rates in effect for services no longer offered for new installations

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.1.2. and Original Sheet S-15.3

CENTREX - IV (Cont'd)

B. DEFINITIONS (Cont'd)

Identified outward toll dialing - provides for the recording and identification of station lines making outward direct distance dialed toll calls and operator handled toll calls for billing purposes.

Indication of camp-on - provides a distinctive tone to the busy station line when there is a camp-on Central Office call waiting.

Restriction from outgoing calls - prevents station users from placing outgoing Central Office calls without the assistance of the attendant.

Station line hunting - provides for an incoming call to a busy station line to be routed to another station line in the same hunt group.

Station-to-station calling - allows the station user to directly dial other stations within the same customer group without the assistance of the attendant.

Switch Loop Operation - provides automatic switching of trunk calls requiring attendant assistance via idle connecting loops from the switching equipment to an associated idle attendant position.

Trunk answer from and station - provides for answering incoming Central Office trunk calls from any station line on the system when the attendant position is unattended.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.3.1

CENTREX - IV (Cont'd)

C. CENTREX IV SYSTEM CONFIGURATIONS

1. Centrex IV Systems are provided in two configurations Standard and Custom
 - a. Standard System Configuration
 - (1) The Standard System Configuration is a predesignate arrangement that includes a line size of 2 to 149 main stations, three-digit intercom dialing, standard access codes and either one of the two basic feature groups described in D. following.
 - (2) The following Standard System Configuration features are provided with standard access codes only. The rates and charges for these features are provided herein.
 - Call Hold
 - Call Pickup
 - Individual
 - Directed
 - Call Forwarding
 - Variable
 - Call Waiting
 - Dial
 - Speed Calling - Changeable List
 - 6 Code
 - 30 Code
 - (3) Subsequent to the initial installation, the other optional features listed in E. following are available for Standard System Configurations at rates and charges provided herein.
 - b. Custom System Configuration
 - (1) The Custom System Configuration is programmed and installed to meet individual customer requirements that deviate from the Standard System Configuration. This system configuration includes a line size of 2 or more main stations, 2-, 3-, 4-, or 5-digit intercom dialing, and the basic features described in D. following.
 - (2) Centrex optional features specified in E. following may be provided with the Custom System Configuration.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.4

CENTREX - IV (Cont'd)

D. BASIC FEATURES

Centrex IV consists of the basic features:

	Feature Group 1	Feature Group 2
- Call Transfer-Attendant or, Dial Station Transfer - All Calls with Add-On-Conference and Consultation Hold	X	X
- Direct Inward Dialing (DID)	X	X
- Direct Outward Dialing (DOD)	X	X
- Feature Access (Dial Code Access)	X	X
- Identified Outward Dialing (ID)	X	X
- Outgoing Call Restriction on Business Lines	X	X
- Station to Station Calling	X	X
- Station Line Hunting	X	X
- TOUCH-TONE Calling	X	X
- Trunk Answer Any Station	X	X
- Call Forwarding		X
- Busy Line		X
- Don't Answer		X
- Variable		X
- Call Hold		X
- Call Pickup		X
- Call Waiting		X
- Originating		X
- Terminating		X
- Directed Call Pickup		X
- Barge-in		X
- Non Barge-in		X
- Speed Calling - Changeable		X
- 6 Code/a/		

/a/ Included as a basic station line feature if the serving Central Office is equipped with No. 1A ESS.
This is an optional feature in No. 1 ESS Central Offices.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.5

CENTREX - IV (Cont'd)**E. OPTIONAL FEATURES**

These Centrex optional features are offered only:

1. Where the serving CO is equipped with suitable facilities, and
2. Where the CO is programmed for the features below.

Abbreviated Dialing (Supplemental Three-Digit Dialing)
Access Codes
Account Code
Advance Private Line Termination
Attendant Account Display
Attendant Call Transfer
Attendant Camp-on
Attendant Control of Facilities (ACOF)
Attendant Consoles
Attendant Trunks, Supplemental and Digit Absorbing
Authorization Codes
Automatic Alternate Routing (AAR)
Automatic Callback
Automatic Route Selection-Basic (ARS-B)
Automatic Route Selection-Deluxe (ARS-D)
Busy Verification by Attendant
Call Forwarding-Busy Line/a/
Call Forwarding-Don't Answer/a/
Call Forwarding Over Private Facilities (CFOPF)
Call Forwarding-Variable/a/
Call Hold/a/
Call Pickup/a/
Call Waiting - Dial
Call Waiting Lamp Indication
Call Waiting-Originating/a/
Call Waiting-Terminating/a/
Cancel Call Waiting
Common Control Switching Arrangement (CCSA) Access Line Termination
Conference Calling
Customer Administration Center (CAC)
Customer Traffic Record Feature (CTRF)
Delay Announcement
Deluxe Queueing

/a/ Basic features of Centrex IV, Feature Group 2.

Material originally appeared in INFORMATION LINK No. 2, Original Sheets S-15.5 and S-15.5.1

CENTREX - IV (Cont'd)**E. OPTIONAL FEATURES (Cont'd)****2. Where the CO is programmed for the features below. (Cont'd)**

Dial Through Attendant
Dial Station Transfer - All Calls/a/
Directed Call Pickup/a/
Direct Connect
Distinctive Ringing
Electronic Tandem Switching Tie Line Termination
Facilities Administration and Control (FAC)
Facilities Restriction Levels (FRL)
Facility Assurance Reports (FAR)
Hospital Slumber Service
Loudspeaker Paging Access
Main-Satellite Service
Make Busy Arrangements
Music-On-Queue
Night Transfer
Outgoing Trunk Queueing (QTQ) - WATS
Private Line Terminations
Queueing
Radio Paging Access
Recorded Telephone Dictation Access
Remote Access
Selected Customer Control of Facilities (SCCOF)
Silence or Customer Provided Music after Delay Announcement
Speed Calling
- 6 Code/a/
- 30 Code
Split Service
Station Dial Conference
Station Message Detail Recording (SMDR)
Station Message Detail Recording-Premises (SMDR-P)
Tie Line Termination
Time of Day Routing (TOD)
Toll Diversion
Traffic Data To Customer
Traveling Class Mark (TCM)
Uniform Call Distribution (UCD)
Uniform Numbering/Automatic Alternate Routing (UN/ARR)
800 Service Call Transfer

/a/ Basic features of Centrex IV, Feature Group 2.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.5.1 and
Original Sheet S-15.5.2

CENTREX - IV (Cont'd)

F. RATES AND CHARGES

1. Centrex IV Nonrecurring Charges

<u>Service Establishment Charge</u>	
- Standard System Configuration	\$750.00
- Custom System Configuration	3,800.00
(These charges apply only to customers currently not subscribing to Centrex service.)	

Conversion Charge Conversion ChargesThe charges applies to convert from:

- Centrex I, II or Combined to Centrex IV- Feature Group 1	\$1,500.00
- Centrex I, II or Combined to Centrex IV- Feature Group 2	600.00/a/
- Centrex III or ETSP to Centrex IV-Feature Group 1	175.00
- Centrex III, ETSP or Centrex IV-Feature Group 1 to Centrex IV-Feature Group 2	175.00/a/
- Centrex IV-Feature Group 2 to Centrex IV- Feature Group 1	175.00/a/

Optional Payment Periods

<u>USOC</u>	<u>Non-recurring Charge</u>	1	36	60
		<u>Mo./b/</u>	<u>Mos.</u>	<u>Mos.</u>
<u>Common Equipment, Per System</u>	-	\$25.00	\$25.00	\$25.00

Business Service - Feature Group 1Main Station Lines,
Measured Rate Service, each

- Exchange Access	/b/	17.00	15.50	14.00
- Intercommunication		(15.64)	(14.26)	(12.88)

Business Service - Feature Group 2

Main Station Lines

- Exchange Access	/b/	19.00	17.50	16.00
- Intercommunication		(15.64)	(14.26)	(12.88)

/a/ In addition, the station line addition and change charges apply per station line changed when basic Centrex IV features are added or deleted.

/b/ Line Connection charges specified in Tariff M.P.S.C. No. 20 R, Part 3 apply.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.5.6

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

2. Additions, Moves and Changes

a. For an in-service move of attendant consoles in the same building the charges will be based on cost.

b. System Additions or Changes Nonrecurring Charges

Expand station range subsequent to initial, cutover, each 100 station lines or less	\$100.00
To add an access code, each	115.00
To change an access code on an existing trunk group, each	70.00
Add or delete Call Forwarding Outside; Call Forwarding - Don't Answer, All Calls; Call Forwarding - Busy Line	
All Calls; or Call Waiting, All Calls	70.00
Rearrange Centrex Access Treatment (CAT) codes, each	40.00

c. Station Line Additions or Changes Nonrecurring Charges

For one more of the following additions or changes made
on a station line at the same time:

Change station line number	\$6.00
Change class of service or Line Class Code (LCC) on a station line	
Change Centrex Access Treatment (CAT) code	
Remove priority queueing from a line	
Change, add or remove a telephone number on a fixed Speed Calling list	
Change a number to which calls are forwarded	
Add or remove a line from a call pick-up group	
Add or remove hunting from a station line	
Rearrange or delete a station line within a Multiline Hunt Group (MLHG)	
Add or remove TOUCH-TONE Calling	
Change a Centrex group number on a station line	
Change a Dormitory Service station line to a business station line or vice versa	
Add or delete a basic feature to or from a Centrex IV - Feature Group 2 station line	

d. For changing the number of digits dialed for station-to-station calling on a system from a 3-or 4-digit to a 5-digit dialing system or from a 3-digit to a 4-digit dialing system a nonrecurring charge of \$334.33 is applicable.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.6.1

CENTREX - IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features

		<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>Monthly Rates</u>
a.	Attendant Positions			
(1)	51A Console			
(a)	Type 27A (small), each	ED7	\$ 2,100.00	\$220.00
(b)	Type 47A (large), each	ED4	2,340.00	275.00
(c)	Central Office Common Equipment			
	- Type 27A console, each	EDD	335.00	10.00
	- Type 47A console, each	EED	335.00	10.00
(d)	Data Link Common Equipment			
	- Customer Premises Unit (required for each group of four consoles), each	EDS	10,960.00	570.00
	- Additional Common Equipment-Customer Premises Unit (required for third and fourth console in each group of four consoles), each	ED6	1,045.00	145.00
	- Serving Central Office Unit, (required for each group of four consoles), each ^{/1}	EDK	15.00	220.00 (C)
(e)	Attendant Loop Circuit Termination Serving Central Office (maximum of six per console), each	EDB	30.00	20.00
(f)	Attendant Trunk Circuit Termination Serving Central Office (one required per console), each			
(g)	Attendant Access Line (one per console), each ^{/2}	EDF EDA	15.00 Rates and charges for a Centrex Station Line apply.	63.00 (C)

/1/ One required per Common Equipment - Customer Premises as specified for USOC EDS above and, in addition, rates and charges apply as provided via unregulated Dedicated Communications Service, for a 4 wire voice grade Direct Analog Service between the serving wire center and the customer's premises per each group of four consoles. (C)
(C)

/2/ In addition, rates and charges as provided via unregulated Dedicated Communications Service, apply for a 2 wire voice grade Direct Analog Service. (C)
(C)

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)
 - a. Attendant Positions (Cont'd)
 - (2) 50B Console
 - (a) Description

The 50B Console provides a complement of customer convenience and cost control items described in (c) following.

The 50B Console attendant positions are microprocessor controlled non data link consoles. Two types of consoles are available: a 50B Multibutton Electronic Telephone (MET) set or a 50B Electronic Console.

A single 50B Console installation may have up to 4 attendant positions with the Direct Station Selection/Busy Lamp Field (DSS/BLF) features or up to 16 attendant positions without the DSS/BLP features.

All attendant positions provided in a single 50B Console installation must be of the same type.

The 50B Console is provided only with Centrex II CO, Feature Group 2 of Combined Centrex, Centrex III B, Feature Group Z of Centrex III C, and Electronic Telecommunication Services - Service Plan I systems served from No. 1 ESS Central Offices equipped to provide this service.

Suspension of service is not offered for this system.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.7.1

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

a. Attendant Positions (Cont'd)

(2) 5OB Console (Cont'd)

(b) Features /a/

Standard

- Alphanumeric display for Incoming Call Identification (ICI)
- Attendant traffic measurements
- Dial access to attendant*
- Hold*
- Last number dialed storage
- Position Busy
- Real time clock
- Repertory dialing
- Single function buttons*
- Splitting
- Timed Reminder*

Optional

- Attendant camp-on*
- Attendant Conference*
- Calls waiting indication*
- Direct Station Selection/Busy Lamp Field (maximum of 1800 lines)
- Fixed night answer service
- Flexible night answer service*
- Inward Customer Dialed Account Recording (I-CDAR) function
- Multiple Position Hunt
- Trunk answer from any station night service*
- Trunk group busy indications*
- Queueing*

/a/ Of the features listed, only those indicated with an asterisk (*) are available with the MET set.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.7.1

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)
 - a. Attendant Positions (Cont'd)
 - (2) 50B Console (Cont'd)
 - (c) Feature Description

Alphanumeric Display for Incoming Call Identification (ICI) - incoming calls to the electronic console are routed by the microprocessor to the first available line loop. The source of the call appears on the console's eight-digit alphanumeric display.

Attendant Access Line - provides a circuit between the Central Office serving the Centrex system and the attendant position on the customer's premises. These lines are provided for the completion of calls directed to the attendant.

Attendant Camp-on - allows an incoming call, which the attendant attempts to extend to a busy station line, to be held waiting until the called station becomes idle. The called station is then automatically rung and connected upon answer.

Attendant Conference - allows the attendant to establish a multiparty conference connection of up to five parties, not including the attendant.

Attendant Traffic Measurements - the electronic console's alphanumeric display provides the attendant with the number of calls handled and the average attendant work time.

Calls Waiting Indication - provides a visual signal on each attendant position to indicate when calls are waiting to be served.

Dial Access to Attendant - allows station users within the Centrex group to reach an attendant by dialing a code, usually a single digit "0". In the 50B Console, these calls are routed to dedicated attendant access lines on the console to allow incoming call identification.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.7.2

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

a. Attendant Positions (Cont'd)

(2) 50B Console (Cont'd)

(c) Feature Description (Cont'd)

Direct Station Selection/Busy Lamp Field (DSS/BLP)

- The DSS feature allows the attendant to complete calls to stations by depressing the proper hundreds group select button, plus the DSS button associated with the station line.

- The BLP feature allows the attendant to look at the DSS buttons to determine if a particular station is busy. If a station is busy, if a station is busy, the lamp is lighted.

Hold - enables the attendant to hold a call by depressing the console's HOLD button. The associated line loop lamp indicates the hold state.

Inward Customer Dialed Account Recording (I-CDAR) Function - eliminates the need for manual recording and transmission to the Central Office of customer account digits involved in the handling of INWATS and incoming FX calls by customers subscribing to the CDAR feature. The I-CDAR function permits the attendant to enter the account digits into a digital display and memory of the 50B Electronic Console. After verification, a single key is operated which then transmits the stored information to the Central Office. The accounting information is recorded and the incoming call is extended to the telephone number that was displayed Station Message Detail Recording (SMDR) is prerequisite for this feature.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.7.2

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

a. Attendant Positions (Cont'd)

(2) 50B Console (Cont'd)

(c) Feature Description (Cont'd)

Last Number Dialed Storage if the attendant cannot complete a call, the 50B Console will remember the called number. At some later time, the attendant can reenter the line loop and depress the LAST NO. button to redial the party.

Night Services Arrangements

- Fixed - permits the forwarding of an incoming call to a predesignated station at night or other time when attendant positions are unattended or inoperative. This feature is activated or deactivated by a button on the console.
- Flexible - uses the Centrex Call Forwarding - Variable feature to activate or cancel night service.
- Trunk Answer From Any Station - an incoming night call is indicated by the ringing of a night bell. Calls may be answered at any station by dialing an answer access code. This feature may be provided independently or in conjunction with Fixed night service.
- Flexible night service is not compatible with Fixed night service nor can it be used with certain types of Multiple Position Hunt groups.

Position Busy - enables an attendant with a 50B Console to busy-out an unattended position. Operation of a position busy button creates a busy signal at the Central Office so calls are not routed to the position. This feature is provided only in association with Multiple Position Hunt and Uniform Call Distribution.

Queueing - permits incoming calls to be held awaiting the availability of an idle line and to be unloaded from the queue on a first-in, first-out basis.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.7.3

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

a. Attendant Positions (Cont'd)

(2) 5OB Console (Cont'd)

(c) Feature Description (Cont'd)

Real Time Clock - the electronic console's alphanumeric display provides the time of day when it is not displaying other information

Repertory Dialing - permits the attendant to use buttons reserved on the electronic console for dialing frequently called numbers. This feature permits the dialing of a number up to 15 digits by depressing a single button.

Single Function Buttons - provides control buttons to answer, originate and control basis call processing.

Splitting - allows the attendant to consult privately with the called party without the calling party hearing.

Timed Reminder - provides a lamp signal which automatically alerts the attendant after 30 seconds when a call is camped-on, when a called party has not answered, or when a call is held on the console.

Trunk Group Busy Indication - provides a visual indication on an attendant position when all trunks in a trunk group are busy. A maximum of four busy lamps are provided per system.

(d) Rates and Charges

Nonrecurring Charge

<u>Nonrecurring Charge</u>	
- Service Establishment Charge	\$2,200.00
- Equipment Addition Charge	
When adding Consoles, Console Line Circuit Packs, Scanner Units, or Scanner Line Circuit Packs to an existing system, an Equipment Addition Charge applies on a per occasion basis in addition to the Installation Charges for the equipment.	
- Equipment Addition Charge, per occasion	900.00

Material originally appeared in INFORMATION LINK No. 2, Original Sheets S-15.7.3 and S-15.7.4.

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

a. Attendant Positions (Cont'd)

(2) 50B Console (Cont'd)

(d) Rates and Charges (Cont'd)

Rate Schedule	<u>USOC</u>	Nonrecurring <u>Charge</u>	Monthly <u>Rate</u>
- 50B Electronic Console including control unit equipped for termination of 8 attendant access lines, each	ECB++	\$710.00	\$360.00
- 50B Electronic Console including control unit with Direct Station Selection and Busy Lamp Field equipped for termination of 8 attendant access lines, each (maximum of 1800 Centrex lines)	ECG++	710.00	400.00
- 50B Multibutton Electronic Telephone Console including control unit equipped for termination of 8 attendant access lines, each	ECH++	600.00	235.00
- Console Line Circuit Pack - provides for termination of 4 additional attendant access lines, each (maximum of 2 per console)	ECP	45.00	15.00
- Subsequent installation			52.00/a/

/a/ For subsequent installations, this charge and the Equipment Addition Charge are applicable in addition to the nonrecurring charges for the equipment added.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.7.4

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

a. Attendant Positions (Cont'd)

(2) 5OB Console (Cont'd)

(d) Rates and Charges (Cont'd)

Rate Schedule (Cont'd)	<u>USOC</u>	Nonrecurring <u>Charge</u>	Monthly <u>Rate</u>
- DSS/BLF Scanner Unit equipped for Busy lamp termination of 50 Centrex lines, each (maximum of 300 Busy Lamps)	ECU	210.00	90.00
- Subsequent installation		200.00/a/	
- Scanner Line Circuit Pack - provides for Busy Lamp termination of 25 additional Centrex lines, each (maximum of 10 per Scanner Unit)	ECL	75.00	12.00
- Subsequent installation		95.00/a/	

/a/ For subsequent installations, this charge and the Equipment Addition Charge are applicable in addition to the nonrecurring charges for the equipment added.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.7.4

CENTREX - IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

a. Attendant Positions (cont'd)

(2) 5OB Console (cont'd)

(d) Rates and Charges (cont'd)

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
Rate Schedule (cont'd)			
- Optional Equipment Cabinet for Control and Scanner Units, each	ECJ	\$131.12	\$39.34
- Attendant Access Line, each (maximum of 16 per console)	EAS	/1/	/1/ (C)
- Attendant Conference		285.00	80.00
- Trunk Group Busy Indication (maximum of 4 Group Busy Indicators per system)			
- Common Equipment, per trunk group ^{/2/}			
- Fixed Night Service, per system ^{/2/}	EAX	28.00	16.00 (C)
- Call Waiting Indication ^{/2/}	CXX	60.00	4.00 (C)
		28.00	16.00 (C)

/1/ Rates and charges for Centrex station lines apply for the associated Centrex system. For TOUCH-TONE Calling, rates and charges specified elsewhere in the tariff apply for Centrex station lines equipped with this feature. Rates are applicable to the System's minimum charge. (C)

/2/ In addition, rates and charges as provided via unregulated Dedicated Communications, apply for a 2 wire voice grade Direct Analog Service between the serving wire center and customer's premises for each Trunk Group equipped. (C) (C)

CENTREX - IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****a. Attendant Positions (Cont'd)****(2) 50B Console (Cont'd)****(d) Rates and Charges (Cont'd)**

<u>Moves, Changes or Rearrangements</u>	<u>Nonrecurring Charge</u>
- Change of a console faceplate or trim panel	\$25.00
- Change of 50B Multibutton Electronic Telephone Console faceplate	7.00
- Change of rearrangement of the Attendant Conference feature	65.00
- Change or rearrangement of the Fixed Night Service feature	45.00
- Change or rearrangement of the Trunk Group Busy Indication feature	28.00
- Change of Call Waiting Indication	28.00
- For other changes of a 50B console from one type to another, the Installation charge specified elsewhere in this Guidebook applies for the replacing console as if installed new.	(C)
- Other Changes or Rearrangements For other changes or rearrangements, the charges will be determined separately for each case in accordance with the provisions for establishing charges for special equipment and arrangements specified elsewhere in this Guidebook.	

CENTREX - IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****b. Automatic Route Selection - Basic (ARS-B)****(1) General**

(a) Automatic Route Selection - Basic is offered with Centrex systems served by No. 1 ESS Central Office switching equipment equipped to provide this service where the capacity of the Central Office is sufficient to provide Automatic Route Selection - Basic without affecting other services.

ARS-B provides for dial completion of outgoing calls, from Centrex station lines, over a variety of available facilities subscribed to by the customer.

(b) Features Description

Facility - denotes a specific foreign exchange (zone) trunk, WATS line (by band or Numbering Plan Area), CCSA off-network access line, tie lines (dial selected and selective type - outgoing), or compatible Other Common Carriers one-way outward access lines. These lines require outward service, senderized operation, and uniform numbering consistent with the MTS network.

Route - consists of one or more lines of the same type facility that the customer may use to reach 7 to 11 digit telephone numbers.

Pattern - a group of four or less routes arranged to be selected in a sequence specified by the customer. A pattern may include more than one Numbering Plan Area. The number of patterns required by a customer are dependent on the type and variety of facilities subscribed to by the customer.

Route Selection - the automatic selection of the preferred route upon dialing of an access code and a 7 to 11 digit telephone number by the station users. The automatic route selection patterns may be arranged for three digit translation (NPA Code) or six digit translation (NPA Code and the Central Office code) to determine the preferred route depending on the customer's requirements.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.8

CENTREX - IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****b. Automatic Route Selection - Basic (ARS-B) (Cont'd)****(1) General (Cont'd)****(b) Features Description (Cont'd)****Selected Customer Control of Facilities (SCCOF)**

Selected Customer Control of Facilities provides a Centrex attendant with the ability to make an individual facility group inaccessible to users. The SCCOF feature is activated and deactivated by control of the attendant. When the feature is activated on a facility group, all traffic will proceed to the next idle route in the route selection pattern. Selected Customer Control of Facilities may be furnished with Automatic Route Selection - Basic, Automatic Route Selection - Deluxe or other facilities such as WATS.

NOTE: The SCCOF feature is only available from No. 1 ESS Central Offices with 1E6 generic programs or higher.

- (c) The initial route selection and up to three alternate routes in each pattern are arranged as specified by the customer. A maximum of 64 patterns may be provided where facility conditions permit.
- (d) By dialing an access code for a group of patterns and a 7 to 11 digit telephone number, Automatic Route Selection - Basic automatically selects the preferred routes to complete the call, and if no route is available, overflows to either:
 - The local exchange trunks provided with the Centrex system, or
 - To an overflow tone, upon condition that the customer contract for sufficient facilities which, in the judgment of the company, provide an adequate level of service.

Within the limitations of the equipment certain types of calls will not complete over Automatic Route Selection - Basic facilities, e.g., operator handled calls, local calls and calls over facilities not associated with Automatic Route Selection - Basic.

Material originally appeared in INFORMATION LINK No. 2, Original Sheets S-15.8 and S-15.8.1.

CENTREX - IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****b. Automatic Route Selection - Basic (ARS-B) (Cont'd)**

(2) Service Establishment Charge - a nonrecurring charge of \$237.32 for the establishment of Selected Customer Control of Facilities is applicable.

(3) Charges

The established nonrecurring and monthly charges for the foreign exchange (zone) trunks, CCSA off-network access lines, WATS lines, tie lines, or compatible OCC access lines are applicable in addition to the charges for Automatic Route Selection. The Tie Line feature charge, as shown elsewhere in this tariff, is applicable for terminating tie lines or OCC access lines in the Centrex system.

Automatic Route Selection - Basic /a/

	USOC	Nonrecurring Charge	Optional Payment Periods		
			1 Mo.	36 Mos.	60 Mos.
<u>Common Equipment</u>	ART	\$157.34	\$32.77	\$32.77	\$32.77
<u>Each facility terminated</u>	AR5	-	4.92	4.92	4.92

Route Selection Patterns

- With three digit translation for Numbering Plan Area (NPA) Codes or Home NPA Central Office Codes
- With overflow to local exchange trunks, each pattern /b/ AR9 65.56 3.93 3.93 3.93
- With overflow to a tone, each pattern ARG 65.56 13.10 13.10 13.10

/a/ For Automatic Route Selection - Deluxe, see Electronic Tandem Switching (ETS) contained elsewhere in this Guidebook. (C)

/b/ When station lines equipped with Toll Diversion have access to Automatic Route Selection-Basic, the monthly rate for either USOC ARG or AR9 is applicable.

CENTREX - IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

b. Automatic Route Selection - Basic (ARS-B) (cont'd)

(3) Charges

<u>USOC</u>	Nonrecurring Charge	Optional Payment Periods		
		1 Month	36 Months	60 Months

Route Selection Patterns

- With six digit translation for Numbering Plan Area (NPA) codes plus Central Office codes (NNX)
- With overflow to local exchange trunks, each pattern^{/1/} ARH \$196.68^{/2/} \$15.73^{/2/} \$15.73^{/2/} \$15.73^{/2/} (C)
- With overflow to a tone, each pattern ARK 196.68^{/2/} 24.90^{/2/} 24.90^{/2/} 24.90^{/2/} (C)

Selected Customer Control of Facilities

- Common equipment, per system SFY 66.94 19.47 19.47 19.47
- Each facility group to which access is denied^{/3/} SFF 30.43 6.69 6.69 6.69 (C)

/1/ When station lines equipped with Toll Diversion have access to Automatic Route Selection-Basic, (C) the monthly rate for either USOC ARG or ARK is applicable.

/2/ Rate includes one six digit translation. If additional six digit translations are required for a pattern, (C) the charge applies for each additional translation.

/3/ In addition, apply rates and charges as provided via unregulated Dedicated Communications Service, for 2 wire voice grade Direct Analog Service between the serving wire center and the customer premises. (C)

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

b. Automatic Route Selection - Basic (ARS-B) (Cont'd)

(4) Additions, Changes and Rearrangements

- For the addition of patterns the nonrecurring charges in (3) preceding are applicable.
- For the addition of one or more facilities to an existing route at the time each facility is established, no additional charge is applicable.
- For additions and changes of NPA or Central Office codes, a nonrecurring charge of \$65.56 is applicable for one or more additions and changes made on the same occasion. The customer is responsible for notifying the Company when NPA or Central Office codes are added or changed.
- For addition deletion or change of routes in existing patterns, a nonrecurring charge of \$65.56 per pattern is applicable.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.8.2

CENTREX - IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****c. Hospital Slumber Service**

- (1) Slumber Service is available to hospitals with Centrex systems served from No. 1 ESS Central Office switching equipment. It provides an intercept answering location for patient incoming telephone calls during periods when the patients should not be disturbed. Station lines serving patient room telephones may be assigned to a Slumber Group arranged according to varying patient needs for call intercept; e.g., normal sleeping hours, maternity feedings, etc.
- (2) On lines equipped for Slumber Service, incoming calls are routed either to the station lines serving patient room telephones or to an intercept location via intercept lines. Routing is controlled by hospital personnel through the operation of a two-position key. Outgoing telephone service from patient telephones is not affected by the operation of the key.
- (3) The intercept lines are either supplemental attendant type trunks terminating at an attendant position, or PBX station lines extended to telephone sets or Automatic Public Announcement Service.
- (4) Slumber Service is furnished upon the condition that the customer subscribe to sufficient intercept lines and answering locations to avoid injurious effect upon the general telephone service as covered in Tariff M.P.S.C. No. 20 R, Part 2.

(5) Charges

	<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>Optional Payment Periods</u>		
			<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
(a) Make-Busy Key, per Slumber Group	P2Y	/a/	/a/	/a/	/a/
(b) Each station line in a Slumber Group	FRA	\$19.66/b/	\$0.18	\$0.18	\$0.18

/a/ Apply charges for Make Busy Feature as specified in Part 8, Section 8 in this Guidebook

(C)

/b/ Covers one or more station lines equipped at the same time.

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

c. Hospital Slumber Service (Cont'd)

(5) Charges (Cont'd)	<u>USOC</u>	Nonrecurring <u>Charges</u>	Optional Payment Periods		
			1 <u>Mo.</u>	36 <u>Mos.</u>	60 <u>Mos.</u>
(c) Attendant position intercept	FRD	20.98	11.54	11.54	11.54
(d) Station line intercept	FRE	16.39	8.26	8.26	8.26
(d) Station line intercept	FRG	16.39	3.29	3.29	3.29
- Each intercept line per Slumber Group - station line charges as specified for the type Centrex system involved.					

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.9

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

c. Hospital Slumber Service (Cont'd)

(6) Move and Change Charges

- (a) To move a Make-Busy Key or an intercept line (not including the associated equipment), the Nonrecurring charge applies.
- (b) To change from attendant position intercept to station line intercept, the nonrecurring charges under (5) (d) apply.
- (c) To change from station line intercept to attendant position intercept, the nonrecurring charges under (5) (c) apply.
- (d) To remove or change a station line to another Slumber Group, the nonrecurring charge under (5) (b) applies, for one or more station lines removed or changed at the same time.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.9

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

d. Through Dialing - Attendant Service

- (1) Through Dialing, on outgoing calls handled at the attendant position, permits station users to complete dialing after the attendant selects the outgoing trunk facility.
- (2) This service feature is only available with Centrex systems served by No. 1 ESS Central Office switching equipment arranged to provide the service.
- (3) Charges
 - To establish Through Dialing Attendant Service on a new or existing system, a Nonrecurring Charge of \$32.77 is applicable.
 - To deactivate the feature on an existing system, the preceding Installation Charge is applicable.

e. Main-Satellite Service

- (1) Main-Satellite Service is provided between Centrex systems served by No. 1 ESS Central Office switching equipment arranged to provide the service.
- (2) Main-Satellite Service is a two-way dialing type tie line which permits 5-digit station-to-station dialing between systems of the same customer.
- (3) Limitations of the Service are:
 - Dial "0" calls are routed to one attended system.
 - The station line numbers of each system must have a unique third digit, e.g., (22)3-7492 on the Main system and (22)4-7492 on the Satellite system.,
 - Transfers of incoming calls to other station lines on the same or different system, or to the attendant will vary depending on the type of Centrex system.
 - Lines or facilities terminating on one system, excluding station lines or attendant dial "0" trunks, may be accessed via Main-Satellite Service tie lines equipped with Tandem Dial Switching arrangements.
 - One or more access codes may be required to reach lines or facilities associated with Tandem Switching or Automatic Route Selection.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.10

CENTREX - IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

e. Main-Satellite Service (cont'd)

(4) Charges

	<u>Nonrecurring Charges</u>	Optional Payment Periods		
		1 Month	36 Months	60 Months
Main-Satellite Service Tie Lines, per termination	\$32.77 ^{/1/}	\$32.77	\$32.77	\$32.77 (C)

Channels

- 4 wire voice grade Direct Analog Service rates and charges and signaling capability rates and charges as provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers, are applicable in addition to the preceding rates and charges

(C)
(C)

Additions

- For the addition or change of Dial Access Codes, the nonrecurring charge specified elsewhere in this tariff for Centrex system additions or changes applies.

f. Supplemental Three-Digit Dialing Service

- (1) Supplemental Three-Digit Dialing Service is available on a Centrex system arranged for 4- or 5-digit station-to-station dialing.
- (2) Three-Digit Dialing is provided as a means to reach an emergency station line on the same system, such as fire, police, etc.
- (3) Station user access to the three-digit service cannot be restricted when a station-line terminating arrangement is provided. The trunk terminating arrangement, however, enables the customer to control station user access.

/1/ Not applicable when installed at same time as the Centrex system.

(C)

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

f. Supplemental Three-Digit Dialing Service (Cont'd)

(4) Charges

				Optional Payment Periods		
				1 Mo.	36 Mos.	60 Mos.
-	Station Line Termination	<u>USOC</u> HDG	Nonrecurring Charges	\$16.39	\$14.62	\$14.62
-	- Each 10-number group					
-	Rates and charges for station lines are in addition to the charges and rates preceding.					
-	Trunk Terminations		100.00	20.00	20.00	20.00
	- Per trunk group		11.00			

g. Terminating Facilities for CCSA Access Lines

(1) Terminating facilities are required when a Centrex system and CCSA (Common Control Switching Arrangement) are located in the same No. 1 ESS Central Office switcher.

(2) Charges

				Optional Payment Periods		
				1 Mo.	36 Mos.	60 Mos.
-	Terminating facilities per CCSA Access Line	<u>USOC</u> TPQ	Nonrecurring Charges	\$32.77	\$4.06	\$4.06

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.11

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

h. Outgoing Trunk Queueing - WATS Lines

- (1) An Outgoing Trunk Queueing feature provides station lines with off-hook queueing for outgoing WATS lines, excluding combined WATS, by direct dial access or with Automatic Route Selection (ARS).
- (2) Outgoing Trunk Queueing is only available for Centrex Systems served by No. I ESS Central Offices which are equipped to provide the feature.
- (3) Description of Features

Attendant Key Control of Interflow - provides for calls which queue for one of the lower numbered WATS bands (schedules) to complete via a higher-numbered WATS band under conditions where the waiting period on the queue for the lower-numbered WATS band exceeds a customer's specified threshold and the queue for the higher-numbered WATS band is relatively inactive. Customer control of interflow from a lower-numbered WATS band to a higher-numbered WATS band can be achieved by providing an inhibit inflow or inhibit outflow key.

Inhibit inflow key - when operated for a higher-numbered WATS band, prohibits the queue for this WATS band from accepting calls originated for a lower-numbered WATS band.

Inhibit outflow key - when operated for a lower-numbered WATS band, prohibits calls on the associated queue from interflowing to a queue for a higher-numbered WATS band and from completing via the MTS network.

Music-on-Queue - provides for interconnection with a customer provided music source. At the customer's option Music may be provided to a user on queue instead of silence or Recorded Announcement.

Priority Queueing - provides for station lines arranged for queueing to be given originating priority. Priority calls are loaded into queue ahead of nonpriority calls. When the queue is full, priority calls are routed to overflow tone or to the MTS network.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.12

CENTREX - IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****h. Outgoing Trunk Queueing - WATS Lines (Cont'd)**

Queueing - provides for a call to be placed in a waiting line (queue) when all WATS facilities that could handle this call are busy. When a call is waiting in queue, the facility is seized immediately upon its being released by the previous call. A maximum time limit of 1023 seconds is provided for a call to remain in queue before overflowing to the MTS network or to overflow tone.

Recorded Announcement - provides one continuous repeating type announcement, at the customer's option, instead of silence or music on queue.

Silence-on-Queue - provided on a system unless the customer elects to have Music-on-Queue or Recorded Announcement.

(4) Limitations of the offering due to type of Queueing facilities:

- While in queue a station line may not utilize any system feature activated by a flash since the flash signals a disconnect to the Queueing facilities.
- Interflow will not be provided between Interstate WATS and Intrastate WATS Services.
- Attendant Consoles do not have access to Outgoing Trunk Queueing.

(5) Regulations

- The monthly rates will apply for the time the service is retained by the customer.
- The minimum service period is one month.
- Neither partial nor complete temporary suspension of service as provided for in other parts of this tariff shall apply.
- For termination either a) after installation of required equipment and facilities but before service is established, or b) before installation is completed, a charge shall be applicable as specified in Tariff M.P.S.C. No. 20 R, Part 2.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.12 and Original Sheet S-15.12.1

CENTREX - IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

h. Outgoing Trunk Queuing - WATS Lines (cont'd)

(6) Charges

Service Establishment Charge - A nonrecurring charge of \$547.67 applies per System.

	USOC	Nonrecurring Charges	Optional Payment Periods		
			1 Month	36 Months	60 Months
Common Equipment, per OTQ System					
- Queues, each	OTQ	\$638.94	\$ 87.63	\$87.63	\$87.63
- Queue Slots, each	OTT	365.11	8.52	8.52	8.52
	OTU	-	43.81	43.81	43.61
Optional Features					
Attendant Key Control – Interflow					
- Inhibit Inflow, each trunk group	OTA	231.24	2.13	2.13	2.13
- Inhibit Outflow, each trunk group	OTB	231.24 /I/	2.13 /I/	2.13 /I/	2.13 /I/
- Control Keys, each					
Music-on-Queue , per System					
Common Equipment					
	OTD	176.47 ^{/2/}	170.39 ^{/2/}	170.39 ^{/2/}	170.39 ^{/2/} (C)

/1/ Requires a customer provided control key and 2 wire voice grade Direct Analog Service at rates and charges as provided via unregulated Dedicated Communications Service. (C)

/2/ The nonrecurring charge and monthly rates for one 2 wire voice grade Direct Analog Service to the customer's music sources apply as provided via unregulated Dedicated Communications Service. (C)

CENTREX - IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****h. Outgoing Trunk Queueing - WATS Lines (Cont'd)****(6) Charges (Cont'd)**

<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>Optional Payment Periods</u>		
		<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
<u>Priority Queueing</u> , per station line equipped	5.48	-	-	-
- Additional dial Access Codes	/a/	/a/	/a/	/a/
<u>Recorded Announcement</u> , per system	OTC	109.53	34.07	34.07

NOTE: The text and announcement will be provided by the Company.

/a/ The nonrecurring charge specified elsewhere in this Guidebook for Centrex system additions or changes applies. (C)

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

h. Outgoing Trunk Queueing - WATS Lines (Cont'd)

(7) Subsequent Additions, Changes and Rearrangements	Nonrecurring Charges
- Change or rearrangement of Common Equipment, such as, change in access codes of OTQ, change in the Centrex system codes that also require changes in the OTQ, and change in dialing patterns, each occasion.	\$206.90
- Reduction in the number of Queue Slots requiring rearrangement of remaining Queue Slots or subsequent additions, one or more at the same time	73.02
- Change in Queue threshold time limit, increase or decrease, each queue	73.02
- Change of the inhibit inflow or inhibit outflow arrangement, or reduction in the number of inhibit inflow or outflow features when a rearrangement of the remaining inhibit inflow/outflow arrangements each inflow or outflow rearranged	73.02
- Change in overflow arrangement, each queue	103.44
- Change from Recorded Announcement, or Music-on-Queue to Silence on Queue	109.53
- Change from Silence on Queue, or Music-on-Queue to Recorded Announcement, each	/a/
- Change from Recorded Announcement or Silence-on-Queue to Music-on-Queue, each	/a/
- Addition of Priority Queueing per Station Line	/b/
- Removal of Priority Queueing from a Station Line remaining in service	/b/

/a/ The Nonrecurring Charge as specified in (6) preceding applies.

/b/ The Nonrecurring Charge specified elsewhere in the tariff for Centrex station line additions or changes applies.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.12.2

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features

(1) General

Optional calling features are offered with Centrex systems served by No. 1 ESS Central Office switching equipment equipped to provide these features and where the capacity of the Central Office is sufficient to provide the features without affecting other services.

(2) Feature Description

Attendant Camp-on - Allows an incoming call, which the attendant attempts to complete to a busy station line, to be held waiting and automatically connected when the called station line become available. An indication of Camp-on (tone) will be given to the busy station line each time the attendant attempts a completion. Station lines equipped with Call Waiting cannot be Camped-on.

Automatic Callback - Permits a station user who attempts an intercommunication call to a busy station line to be automatically connected to that line when both called and calling lines are subsequently idle. Automatic Callback is only operational for intercommunication calls between station lines of the same system.

Call ForwardingBusy Line

- Individual - Allows incoming calls from outside the system to a busy station line to be automatically routed to a preselected station line or to the attendant on the same system.
- All Calls - Allows all incoming calls to a busy station line to be automatically routed to a preselected station line or to the attendant on the same system.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

- i. Optional Calling Features (Cont'd)
 - (2) Feature Description (Cont'd)

Call Forwarding (Cont'd)

Don't Answer

- Individual - Allows incoming calls from outside the system to a station line to be automatically routed to a preselected station line or to the attendant on the same system when a called station is not answered after a preset number of ringing cycles.
- All Calls - Allows incoming calls to a station line to be automatically routed to a preselected station line or to the attendant when a called station line is not answered after a preset number of ringing cycles.

Variable - Permits a station user or attendant to establish automatic routing of all incoming calls to a station line to a preselected station line, to the attendant, or optionally to a line outside the system. When activated by the attendant, calls intended for station lines automatically route to another station line in the same system or to the attendant.

Limitations

- Call Forwarding-Busy Lines is not provided on a station line equipped with Call Waiting.
- Station lines arranged for Call Forwarding - Variable must forward to another station line on the same system when dial "9" is an access code to system features, such as Automatic Route Selection.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)
(2) Feature Description (Cont'd)

Call Forwarding Over Private Facilities - Enables a station user to establish the automatic routing of incoming calls to a specific facility which is terminated in the same system. The term facility, as used here, applies to CCSA, ETS, WATS, EX, and dial type tie lines and the local and message toll network.

NOTE: Incoming local, message toll network, and 800 Service calls to station lines arranged for Call Forwarding Over Private Facilities routing are subject to appropriate charges for such calls. A common recorded announcement is furnished to inform the caller that the call is being forwarded. In addition, calls forwarded to the local or message toll network and WATS are subject to the appropriate charges for such calls.

Where Call Forwarding Over Private Facilities optional service feature routes calls to a specific private facility which is denied access by activation of the Attendant Control of Facilities optional service arrangement, those calls will instead be routed to a common recorded announcement which refers the callers to the system's attendant.

Call Hold - Allows a station user to "hold" any call in progress by flashing and then dialing a "hold" code, thus freeing the same line for the purpose of originating another call or returning to a previously held call. Call Hold shall only be provided to station lines arranged for Call Transfer - Individual.

Call Pickup Individual - Allows a station user to answer calls directed to another station line within the same pickup group by dialing a special code.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.1

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

(2) Feature Description (Cont'd)

Directed Call Pickup

- Barge-In - Permits a station user, by dialing a special code to pick up an incoming call which has been answered or is ringing at another station line on the same system and equipped with Directed Call Pickup - Barge-in.
- Non-Barge-In - Permits a station user, by dialing a preset code, to pick up an unanswered incoming call directed to another station line on the same system and equipped with Directed Call Pickup - Non-Barge-In.

Call Waiting ServicesTerminating

- Individual - Provides a station user an audible tone to indicate an incoming call from outside the system.
- All Calls - Provides a station user an audible tone to indicate an incoming call is waiting.

Originating

- Provides a station user with the ability to automatically direct an audible tone signal toward any other station line, if that station line is in use.

Dial

- Permits a station line equipped with Dial Call Waiting to originate, by dialing a code, an audible Call waiting tone to called busy station line on the same system.

Cancel Call Waiting

- Allows the user of station with Call Waiting - Terminating to deactivate call waiting for the duration of one call.

Limitations

- Call waiting is not provided on station lines equipped with Call Forwarding - Busy Line. Cancel Call waiting is available only in 1A ESS Central Offices.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.1

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

(2) Feature Description (Cont'd)

Distinctive Ringing

- Furnished in three different classes to indicate the source of calls to idle station lines. These three classes identify:

Class	Call Sources
A	- Intercommunication
B	- Direct inward dialed local and toll - Attendant completed - CCSA access line - Tie line
C	51A Console night service arrangement.

NOTE: Class A ringing is not furnished separately and is included at no additional charge to station line stations arranged for Class B ringing. When a customer's system is equipped with a 51A console and is arranged for Class B ringing, Class C ringing will be provided to identify night service arrangement extended calls to station line stations at no additional charge.

Speed Calling ServicesFixed List - Changes in the number listed require Company work activity.

- 6 Code - Permits each station line having access to place calls to a repertory of six telephone numbers by dialing a code.
- 30 Code - Permits each station line having access to place calls to a repertory of thirty telephone numbers by dialing a code.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.2

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

- i. Optional Calling Features (Cont'd)
 - (2) Feature Description (Cont'd)

Speed Calling Services (Cont'd)

Changeable List - Changes in the numbers listed can be effected from the initial line only by the customer dialing a preset code.

- 6 Code - Permits each station line having access to place calls to a repertory of six telephone numbers by dialing a code.
- 30 Code - Permits each station line having access to place calls to a repertory of thirty telephone numbers by dialing a code.

Limitations

- 6 Code and 30 Code List are not provided on the same station line when such line is in a multiline hunt group.
- Three digit access codes are offered only on the Fixed List since changes require Company work activity.
- Telephone numbers, including routing codes, are limited to a maximum of sixteen digits.

Split Service Offering - Permits segregation of station lines into separate groups, utilizing an additional Common Block, thereby enabling each separate group to have a different set of common features. This feature is available on Centrex I, II, III and IV systems. It is also available on Feature Group I, Feature Group II or both of a Combined Centrex system.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.2

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

(3) Service Establishment Charge applies for the following services:

		Nonrecurring <u>Charges</u>
<u>Common Equipment</u>		
- Automatic Callback		\$535.50
- Call Forwarding Over Private Facilities		474.64
- Distinctive Ringing		133.87

(4) Feature Rates and Charges

	USOC	Nonrecurring <u>Charges</u>	Optional Payment Periods		
			1 Mo.	36 Mos.	60 Mos.
<u>Attendant Camp-on, per Console</u>	C58	-	\$60.86	\$60.86	\$60.86
- One or more Consoles		\$95.84	-	-	-
<u>Automatic Callback</u>					
- Common Equipment, per system ACY	66.94	48.69	48.69	48.69	1.03
- Station line equipped, each SAK		2.62	1.03	1.03	1.03
<u>Call Forwarding</u>					
- Per System /a/	ZXSE6	140.57/b/	- (R)	- (R)	- (R)
- Busy Line - Individual, per line E6GNC	16.39/c/	0.92(I)	0.92(I)	0.92(I)	
- Busy Line - All Calls, per line E6GUR	16.39/c/	0.92	0.92	0.92	

- /a/ On Systems equipped with the Split Service Feature or Combined Centrex, the system rates and charges apply per Common Block.
- /b/ Not applicable when installed at the same time as the Centrex system is established.
- /c/ Not applicable if installed at the same time as the initial installation of the station line. Only one NRC per line applies for one or more features added at the same time or on the same order.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.3

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

(4) Feature Rates and Charges (Cont'd)

	USOC	Nonrecurring Charges	Optional Payment Periods		
			1 Mo.	36 Mos.	60 Mos.
<u>Call Forwarding (Cont'd)</u>					
- Don't Answer, Individual, per line	E9GNC	16.39/c/	0.92	0.92	0.92
- Don't Answer, All Calls, per line	E9GUR	16.39/c/	0.92(I)	0.92	0.92(I)
- Variable, per line	EAT	16.39/c/	2.19	2.19	2.19
<u>Call Forwarding Over Private Facilities</u>					
- Common Equipment, per system	EAY	66.94	127.79	127.79	127.79
- Station line equipped, each	EAP	2.62	5.84	5.84	5.84
<u>Call Hold</u>					
- Per System/a/	ZX5EA	95.84/b/	- (R)	- (R)	- (R)
- Per line EAO	16.39/c/	0.92(I)	0.92(I)	0.92(I)	0.92(I)

/a/ On Systems equipped with the Split Service Feature or Combined Centrex, the system rates and charges apply per Common Block.

/b/ Not applicable when installed at the same time as the Centrex system is established.

/c/ Not applicable if installed at the same time as the initial installation of the station line. Only one NRC per line applies for one or more features added at the same time or on the same order.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.3

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

(4) Feature Rates and Charges (Cont'd)

	USOC	Nonrecurring Charges	Optional Payment Periods		
			1 Mo.	36 Mos.	60 Mos.
<u>Call Pick-up</u>					
- Per System/a/	ZX5E3	95.84/b/ E3N	- (R) 16.39/c/	- (R) 0.92(l)	- (R) 0.92(l)
- Per call pickup group		E3P	16.39/c/	0.92(l)	0.92(l)
- Individual, per line					
- Directed Call Pickup, per line /d/					
- Barge-in	DMA	16.39/c/	0.30	0.30	0.30
- Non-Barge-in	E6D	16.39/c/	0.30	0.30	0.30

/a/ On Systems equipped with the Split Service Feature or Combined Centrex, the system rates and charges apply per Common Block.

/b/ Not applicable when installed at the same time as the Centrex system is established.

/c/ Not applicable if installed at the same time as the initial installation of the station line. Only one NRC per line applies for one or more features added at the same time or on the same order.

/d/ Directed Call Pick-up rates and charges apply in addition to the rates and charges for Call Pick-up - Individual.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.3

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

(4) Feature Rates and Charges (Cont'd)

	USOC	Nonrecurring Charges	Optional Payment Periods		
			1 Mo.	36 Mos.	60 Mos.
Call Waiting					
- Per System /a/	ZX5ES	\$95.84/b/	-	-	-
- Terminating - Individual, per line	ESXCX	16.39/c/	0.92	0.92	0.92
- Terminating - All Calls per line	E6N	16.39/c/	1.46	1.46	1.46
- Originating, per line	ESZ		16.39/c/	0.92	0.92
- Dial, per line	E6C		16.39/c/	0.92	0.92
- Cancel Call Waiting					
- Common Equipment, Per System	/a/	600.00	-	-	-
Distinctive Ringing					
- Common Equipment, per system	DRR	66.94	43.81	43.81	43.81
- Class B ringing, each station line equipped	BRT		2.62	1.64	1.64

NOTE: Class B ringing is furnished only on a per station line basis. In addition, Class B ringing applies to all call sources except intra Centrex. A customer cannot elect to have only selected call sources identified with Class B ringing.

/a/ On Systems equipped with the Split Service Feature or Combined Centrex, the system charge applies per Common Block.

/b/ Not applicable when installed at the same time as the Centrex system is established.

/c/ Not applicable if installed at the same time as the initial installation of the station line. Only one NRC per line applies for one or more features added at the same time or on the same order.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.4

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

(4) Feature Rates and Charges (Cont'd)

	USOC	Nonrecurring Charges	Optional Payment Periods		
			1 Mo.	36 Mos.	60 Mos.
<u>Speed Calling</u>					
<u>Per System</u> /a/	ZX5ET	95.84/b/	-	-	-
<u>Fixed Lists</u>					
<u>6 Code Lists</u> , each	ESHT6	16.39	1.21	1.21	1.21
- Access to each list					
- Initial line	EST1L	16.39/c/	0.30	0.30	0.30
- Each additional line	ESTAL	16.39/c/	0.30	0.30	0.30
<u>30 Code List</u> , each	ESHT3	31.95	6.09	6.09	6.09
- Access to each list					
- Initial line	ESF1L	16.39/c/	0.30	0.30	0.30
- Each additional line	ESFAL	16.39/c/	0.30	0.30	0.30
<u>Changeable Lists</u>					
<u>6 Code List</u> , each	ESHC6	16.39/c/	1.21	1.21	1.21
- Access to each list					
- Initial line	ESTIL	16.39/c/	0.30	0.30	0.30
- Each Additional line	ESTAL	16.39/c/	0.30	0.30	0.30
<u>30 Code Lists</u> , each	ESHC3	25.56	6.09	6.09	6.09
- Access to each list					
- Initial line	ESTIL	16.39/c/	0.30	0.30	0.30
- Each Additional line	ESFAL	16.39/c/	0.30	0.30	0.30

/a/ On Systems equipped with the Split Service Feature or Combined Centrex, the system charge applies per Common Block.

/b/ Not applicable when installed at the same time as the Centrex system is established.

/c/ Not applicable if installed at the same time as the initial installation of the station line. Only one NRC per line applies for one or more features added at the same time or on the same order.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.4

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

(4) Feature Rates and Charges (Cont'd)

<u>USOC</u>	Nonrecurring Charges	Optional Payment Periods		
		1 Mo.	36 Mos.	60 Mos.
<u>Split Service Feature</u>				
- Initial Common Block, per system				
- Additional Common Blocks, each	EBS		\$60.86	\$60.86
- Installed at same time as the initial Common Block		\$587.83		
- Installed subsequent to the initial Common Block		894.52		

(5) Additions and Changes

- For a change of Speed Calling from Fixed List to Changeable List, or 6 Code to 30 Code or vice versa, the nonrecurring charge for the replacing list is applicable.
- For the addition of one or more Optional Calling Features to a system apply the nonrecurring charge to establish any applicable system feature in addition to the nonrecurring charge per line equipped.
- For other optional feature additions or changes, the nonrecurring charge specified elsewhere in this tariff for additions or changes to a Centrex station line applies.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.13.5

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

j. Station Message Detail Recording

- (1) Station Message Detail Recording (SMDR) is an arrangement to provide a record consisting of the Calling number, the called number, date, time-of-day, duration of call and the type of facility used. The magnetic tape record will be provided to customer requiring message detail for cost allocation and telecommunications system management purposes. The detail will be provided on all facilities and routes selected by the customer for SMDR excluding intercom, local, interzone and directory assistance calls. Summaries, however, are provided on local, interzone and directory assistance calls.
- (2) SMDR is offered on Centrex systems served by No. 1 ESS Central Office switching equipment where the Company's message billing process has been arranged to provide this optional feature.
- (3) SMDR is ordinarily provided on a per Centrex system basis. Customers may request individual billing for certain components of the Centrex system instead of for the total system and will be charged based on costs incurred in providing the SMDR under this arrangement.
- (4) The Magnetic tape density, number of tracks and record format will be that used by the program and data processing system in use by the accounting center furnishing the tape.
- (5) SMDR is not represented to be provision of call billing detail. Where Tie Line or Foreign Exchange lines are involved, all such attempts, whether completed or not, will appear in the SMDR.
- (6) The customer may designate the groups of facilities on which SMDR is to be provided. The term facility group refers to either WATS lines, Foreign exchange or Foreign Zone lines. Tie Lines, local exchange trunks for toll calls, CCSA access lines or other compatible arrangements.
- (7) Suspension of service is not offered on this service.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.14

CENTREX - IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

j. Station Message Detail Recording (Cont'd)

(8) Service Establishment Charge - a nonrecurring charge of \$608.51 is applicable only at the time the system is arranged to provide Message Detail Recording on either the initial Tie Line, the initial other compatible access line, or the initial Foreign Exchange or Zone Line.

(9) Rates and Charges

	USOC	Nonrecurring Charges	Optional Payment Periods			
			1 Mo.	36 Mos.	60 Mos.	
<u>SMDR</u>						
<u>Common Equipment</u>						
- Per System		CMM	\$1,947.25	\$48.69	\$48.69	
- Per Facility Group		CMW	91.28			
<u>Station Message Detail Recording</u>						
- Per Message		\$0.018				
<u>Line Equipment</u>						
- Per Tie Line		CMT	-	3.04	3.04	
- Per Foreign Exchange Line		CMQ	-	3.04	3.04	
- Per other compatible Access line			CMZ	-	3.04	
					3.04 3.04	

(10) Changes and Rearrangements

For a change or rearrangement such as in a facility group or access group, the nonrecurring charge for the facility group is applicable.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.14.1

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****k. Electronic Tandem Switching (ETS)****(1) General**

- (a) Electronic Tandem Switching (ETS) consists of a complement of cost control, facilities management, and customer convenience features described in (2) below.
- (b) Electronic Tandem Switching (ETS) features are provided only in association with Centrex systems served from No. 1 ESS Central Offices with the 1E6 generic program or higher.
- (c) Provision of ETS is also subject to the availability of facilities.
- (d) ETS is offered only under the Option I and II Rate Plans described elsewhere in this Guidebook.
- (e) Neither partial nor complete temporary suspension of service shall apply.
- (f) The following features require Automatic Route Selection - Deluxe as a prerequisite: Deluxe Queuing, Facilities Administration and Control, Facilities Restriction Levels, Station Message Detail Recording to Premises and Uniform Numbering/Automatic Alternate Routing.

(C)

(2) Feature Description**Automatic Route Selection - Deluxe (ARS-D)**

ARS-D provides for the origination of only ten digit off-network calls to a message network telephone number, after which the ARS-D access code automatically scans the digits and selects a first choice completing route or subsequent route if the first choice route is not available. Routes may include exchange service lines, Wide Area Telephone Service lines, CCSA access lines, or other compatible arrangements.

The final completing route may be the message network or, at the option of the customer, the call attempt may be routed to overflow tone if a Facilities Restriction Level (FRL) is insufficient to complete the call.

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(2) Feature Description (Cont'd)

Automatic Route Selection - Deluxe (ARS-D) (Cont'd)

When ARS-D is provided in conjunction with Uniform Numbering/Automatic Alternate Routing (UN/ARR), incoming tie lines from other Centrex or PBX systems connected directly to the Centrex System may be arranged to have automatic access to the ARS-D and UN/AAR features. When such arrangements are provided, the tie lines to the ARS-D become "dedicated" tie lines. Separate tie lines are required for the other Centrex or PBX System if access is to be provided to other functions of the ARS-D System. In addition, when ARS-D is provided in conjunction with UN/AAR, routes may include tie lines to another Centrex or PBX System equipped with an ARS-D like capability for subsequent access to the message network.

The ARS-D feature provides all number translation and supervision necessary to route the call. "More Expensive Route" (MER) Tone is supplied, at the option of the customer, as a function of the route selected for a particular call.

Time of Day (TOD) Routing

Time of Day Routing is an ARS-D option which permits preprogrammed selection of alternate routing pattern groups for off-network calls (up to three sets of ARS-D routing patterns groups) on a time-of-day and day-of-week basis. Manual override is available with the Facility Administration and Control feature. The maximum number of programmed changes permitted each week is sixteen.

Customer Administration Center (CAC)

Customer Administration Center permits the customer to administer ETS features in order to obtain traffic measurements and recent circuit assurance data from one or more switching locations. An interactive user terminal provides inputs/outputs. The following features may be provided: Facilities Administration and Control, Traffic Data to Customer, Facilities Assurance Reports.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15 and Original Sheet S-15.15.1

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****k. Electronic Tandem Switching (ETS) (Cont'd)****(2) Feature Description (Cont'd)****Deluxe Queuing**

Deluxe Queuing permits station users to be placed in a queue whenever the first choice route for completing a particular call is already in use. Two Queuing arrangements are available:

A Ringback Queue (RBQ), in which case the calling station line goes on-hook and is held in queue until a facility becomes available.

An Off-Hook Queue (OHO), in which case the calling station line remains off-hook and is held in queue until a facility becomes available.

Calls held in queue beyond a predetermined time limit will be removed from the queue and be routed, at the option of the customer, via either subsequent route choices or to overflow tone.

Facilities Administration and Control

Facilities Administration and Control permits customer control of parameters which determine station user calling privileges; i.e., Authorization Codes and associated FRL. In addition, FRL associated with station lines, ETS Tie Lines and Authorization Codes may be collectively upgraded or downgraded by invoking a predetermined set of FRL's identified as Controlled Alternate FRL's. Manual control (override) or TOD Pattern Groups and activation or deactivation of queuing is also provided.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.1

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(2) Feature Description (Cont'd)

Facilities Restriction Levels (FRL)

FRL is required in connection with ARS-D and is provided on each station line and incoming ETS Tie Line to determine both the types of calls and type of facilities within the privileges of the originating station user. When the FRL is transmitted over an ETS Tie Line to another Centrex or PBX system equipped with ARS-D (for call screening at the distant point), it is identified as a Traveling Class Mark (TCM).

Authorization Codes - Authorization Codes are an FRL option which provides for a station user to dial a code which overrides the FRL associated with that station line or incoming tie line. The system requires dialing of the Authorization Code when the default FRL (i.e., the FRL associated with the station line or incoming ETS Tie Line) has insufficient privileges to complete the call. The Authorization Code is recorded in the SMDR-P record of the call when the SMDR-P feature is provided.

Facility Assurance Reports (FAR)

Facility Assurance Reports provides the customer with the ability to obtain automatic circuit assurance data. FAR includes, for example, the identity of facilities not accessed or facilities constantly off-hook during a specified period of time. FAR may be provided when the system is arranged for Traffic DATA to Customer feature.

Selected Customer Control of Facilities (SCCOF)

Description of this feature, monthly rates and nonrecurring charges are specified under Automatic Route Selection-Basic contained elsewhere in this Guidebook.

(C)

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(2) Feature Description (Cont'd)

Station Message Detail Recording (SMDR-P)

SMDR-P provides a record, on magnetic tape equipment located at the customer's premises, of calls from Centrex station lines to locations outside the same System. Facility groups may also be designated as requiring either originating or terminating records or both.

Account Codes - Account Codes are an SMDR-P option which permit a station user to dial a series of digits (code) which will appear in the SMDR-P record for that particular call. The Account Code can be used by the customer for account or project identification. Adding an Account Code to a call, where arrangements have been made to provide this capability, is at the discretion of the station user. Each customer's Account Codes must contain the same number of digits, not to exceed eight, and must not conflict with on-message-network code assignments.

Traffic Data to Customer (Pollable)

Traffic Data to Customer permits the customer to poll the customer's Centrex system on a daily or hourly basis to obtain certain traffic measurements. Equipment must be provided at the customer's premises to record the traffic data. Facility Assurance Reports is included with this feature.

Uniform Numbering/Automatic Alternate Routing (UN/ARR)

Uniform Numbering permits station users to place calls via an ETS Type tie line using a uniform dialing plan. The user dials an access code, followed by a seven-digit number which uniquely identifies a specific on-network station line. The number consists of a three-digit location code and a four-digit station line code. (When the same access code is followed by a ten-digit message network telephone number the call is routed via the ARS-D feature.) The feature provides the number translation and supervision necessary to route the call.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.2

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****k. Electronic Tandem Switching (ETS) (Cont'd)****(2) Feature Description (Cont'd)**

Automatic Alternate Routing provides automatic routing of on-network calls to alternate tie line routes when primary tie line routes are busy.

Automatic Overflow to DDD - Provides completion of on-network calls via the message network when all primary and alternate tie line routes are busy.

(3) Nonrecurring ChargesService Establishment Charges

This group of charges applies to the Central Office portion of the Service.

<u>Common Equipment</u>	<u>Nonrecurring Charges</u>
Automatic Route Selection - Deluxe	\$3,328.58
Authorization Codes	6,085.16
Customer Administration and Control	584.18
Deluxe Queuing1,752.53	
Facilities Administration and Control	2,799.17
Traffic Data to Customer (Pollable)	9,626.73
Station Message Detail Recording	3,547.65
Uniform Numbering/Automatic Alternate Routing	7,667.30

Installation Charge

This charge applies to the Central Office portion of the Service. Where unusual conditions require installation costs beyond the scope of this service offering, special charges based upon cost as specified elsewhere in this Guidebook may apply.

(C)

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****k. Electronic Tandem Switching (ETS) (Cont'd)****(3) Nonrecurring Charges (Cont'd)****Deferred Payment of Installation Charges**

Installation charges due on an initial installation or subsequent addition may be paid in full at the time of installation or deferred over a predetermined time. If the subscriber elects to pay the installation charges over a predetermined time as an annuity, the following factors should be used in determining the appropriate deferred payment. Selection of the factor is determined by the payment period selected for monthly rates.

<u>36 Months</u> \$.0329	<u>60 Months</u> \$.0219	<u>84 Months</u> \$.0173	<u>120 Months</u> \$.0140
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Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.3

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(4) Central Office Portion of the Service

(a) General

- The minimum service period for all equipment under this rate plan is one month.
- For termination either 1) after installation of the required equipment and facilities but before service is established or, 2) before installation is completed, the charge will be determined separately for each case in accordance with the provisions for establishing charges for special equipment and arrangements as covered elsewhere in the Company's tariffs not to exceed the monthly rates for one month, and the nonrecurring and installation charges.

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rates</u>
(b) Rate Schedule			
<u>Automatic Route Selection - Deluxe</u>			
<u>Common equipment, each access code</u>	ASH	\$1,636.91	\$346.85
<u>Route selection Patterns</u>			
- Each facility terminated in patterns	ASJ	-	4.87
- By NPA code only, each pattern	ASK	30.43	4.99
- By NPA and Central Office codes, each pattern (Provides for routing to one or more Central Office Codes within the NPA)	AS0	103.44	14.60

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.4

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(4) Central Office Portion of the Service (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rates</u>
(b) Rate Schedule (Cont'd)			
<u>Arrangements for additional Pattern Groups for Time of Day routing, each</u>			
	ASZ	\$352.94	\$26.77
NOTE: Rate includes one six digit translation. If additional translations are required for a pattern, the charge applies for each additional translation.			
<u>Customer Administration and Control</u>			
<u>Common equipment, each/a/</u>	CAX	955.36	783.76
<u>Deluxe Queuing</u>			
<u>Common Equipment per system Queue, each facility group equipped</u>	QDC QDF	352.94 91.28	152.13 2.24

/a/ One Central Office common equipment is required in connection with the furnishing of either Facilities Administration and Control or Traffic Data to Customer

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.4

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

k. Electronic Tandem Switching (ETS) (cont'd)

(4) Central Office Portion of the Service (cont'd)

	USOC	Nonrecurring Charge	Monthly Rates
(b) Rate Schedule (cont'd)			
<u>Deluxe Queuing</u> (cont'd)			
Queue slots^{/1/} Off-hook queue (OHQ) slot with: ^{/2/}			
- Recorded announcement, each ^{/3/}	QDA	-	\$ 22.22
- Music each ^{/4/}	QDA	-	21.36
Ring-back queue (RBQ) slots, each	QDR	-	14.85
Recorded Announcement Common Equipment , each	QDE	\$ 42.60	69.37
Music on Queue			
- Common equipment, each	OTD	176.47	170.39
NOTE: A connecting channel is required between the serving Central Office common equipment and the music source (customer provided) on the customer premises. In addition, apply rates and charges provided via unregulated Dedicated Communications, for a 2 wire voice grade Direct Analog Service.			
			(C)

/1/ Station lines can be provided with either OHQ or RBQ. All such stations must be equipped with the same type of queuing. (C)

/2/ OHP must be equipped with either Recorded Announcement or Music on Queue. (C)

/3/ The charges apply in addition to rates and charges for recorded announcement equipment. (C)

/4/ The charges apply in addition to rates and charges for Music on Queue. The music for Music on Queue must be provided by the customer. (C)

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(4) Central Office Portion of the Service (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rates</u>
(b) Rate Schedule (Cont'd)			
<u>Deluxe Queuing (Cont'd)</u>			
<u>Facilities Administration And Control</u> (Requires Customer Administration and Control)			
- Common equipment, each	FA2	\$237.32	\$298.17
<u>Facilities Restriction Levels (FRL)</u>			
<u>Centrex station lines</u> <u>or incoming or two-way tie</u> <u>line terminations, each /a/</u>	FRK00 thru FRK07	3.77	0.18
<u>Authorization Codes</u>			
- Common equipment	AUA	803.24	389.45
- Authorization Codes, for each 100 codes or each fraction thereof	AUS	24.34	6.09
- Each facility terminated in ARS-D or UN/AAR patterns	AUF	-	3.10

/a/ All station lines and incoming tie line terminations with access to ARS-D must be equipped with FRL.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.5

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(4) Central Office Portion of the Service (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rates</u>
(b) Rate Schedule (Cont'd)			
<u>Station Message Detail Recording - (SMDR-P)</u>			
<u>/a/</u>			
- Common Equipment, per system NOTE: Rate includes the recording of Account Codes and Authorization Codes when these optional features are provided	MDR	\$450.30	\$1,034.48
- Each facility terminated in ARS-D for UN/AAR patterns when the system is equipped for originating records <u>/b/</u>	MDX	6.39	7.67
- Each tie line facility equipped for terminating records	MDT	6.39	0.68
<u>Traffic Data To Customer (Pollable)</u> (Requires Customer Administration and Control)			
- Common equipment	PTA	255.59	404.06
- Each Queue equipped	PTU	54.77	3.29
- Each facility group equipped	PTY	54.77	7.85
<u>Uniform Numbering/Automatic Alternate Routing (UN/AAR)</u>			
<u>Common Equipment</u>	UNR	1,837.72	949.29

/a/ Processing of message detail information (SMDR) by the Company accounting center is not provided with this arrangement.

/b/ Applies to each facility terminated in ARS-D or UN/AAR patterns whether or not an originating record is provided to the customer.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.6

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****k. Electronic Tandem Switching (ETS) (Cont'd)****(4) Central Office Portion of the Service (Cont'd)**

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rates</u>
(b) Rate Schedule (Cont'd)			
<u>Route Selection Patterns /a/</u>			
<ul style="list-style-type: none"> - Each UN/AAR pattern - Each tie line terminated in UN/AAR or ARS-D patterns /b/ - Each facility for Automatic Overflow to DDD /c/ 	UNP UNF UNO	\$30.43 - 8.52	\$4.99 3.96 41.39

/a/ The maximum number of routes in a pattern is four. The maximum number of patterns is one hundred eighty.

/b/ In addition, an ETS tape tie line termination is required and charged for as specified elsewhere in this Guidebook.

(C)

/c/ In addition, a PBX trunk is required at the rate specified in Tariff M.P.S.C. No. 20 R, Part 4.

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(4) Central Office Portion of the Service (Cont'd)

(c) Additions, Charges and Rearrangements

	<u>USOC</u>	<u>Nonrecurring Charge</u>
<u>Automatic Route Selection - Deluxe</u>		
- Additions, deletions or changes or routes associated FRL's or More Expensive Routing (MER) tone application in existing patterns, each pattern	RCHAP	\$24.34
- Additions of patterns by NPA code only, per pattern	none	30.43
- Addition of patterns by NPA and Central Office codes, per pattern	none	103.44
- Addition or deletion of a facility to an existing route	none	none
- Additions or changes in NPA or Central Office code routing, each code, each Pattern Group affected	RCHAC	18.26
- Additions, deletions or changes in Time of Day (TOD) Routing Intervals each occasion	RCHAT	36.51
<u>Deluxe Queuing</u>		
- Change from Ringback Queue to Off-Hook Queue or vice versa, each queue	RCHQ1	36.51
- Change in the quantity of queue slots, each queue	RCHQ2	36.51
- Change in queue threshold time limit, each queue	RCHQ3	36.51
- Change in recorded announcement, each	RCHQ4	36.51
- Change in post-queue routing from subsequent routes to tone or vice versa, each queue	RCHQ5	36.51

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.7

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(4) Central Office Portion of the Service (Cont'd)

(c) Additions, Charges and Rearrangements (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charge</u>
<u>Facilities Restriction Levels (FRL)</u>		
- Changes in FRL, each station line or tie line termination	FRK00 thru FRK07	\$3.16
- Change in a single Authorization Code or Associated FRL where Company service order activity is required, each	RCHFA	3.10
<u>Station Message Detail Recording</u>		
- Account Codes-change in number of account code digits, each system /a/	RCHHA	24.34
- SMDR-P records change from recording completed calls only to all calls attempted or vice versa, each system	RCHMC	24.34
- Change in status of all station lines on a system or individual facility from "records-not required" to "records-required", each occasion	RCHMF	3.16

/a/ Provided at time of initial installation of SMDR-P at no additional charge.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.7 and
Original Sheet S-15.15.8

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(4) Central Office Portion of the Service (Cont'd)

(c) Additions, Charges and Rearrangements (Cont'd)

Uniform Numbering/Automatic Alternate Routing
(UN/AAR) /a/

- Additions, deletions or changes of routes or associated FRL's in existing patterns, each pattern
- Additions of patterns, each pattern
- Addition or deletion of a facility to an existing route
- Additions or changes in "on-network" location code routing, each code

<u>USOC</u>	<u>Nonrecurring Charge</u>
RCHUP	\$30.43
none	30.43
none	none
RCHUC	24.34

/a/ The customer is responsible for notifying the Company when any change in route or routing sequence is desired.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.8

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****I. Customer Traffic Record Feature****(1) General**

- (a) The Customer Traffic Record Feature (CTRF) collects and reports traffic data related to a customer's Centrex system. Collected traffic data is transmitted to the customer's premises over a private line facility. The received data is provided via a teletypewriter, or where facilities permit, via a data terminal.
- (b) CTRF is only available from No. 1 ESS central offices equipped to provide this feature.
- (c) Suspension of service is not offered on this service.

(2) Feature Description**Traffic Measurement Data**

Traffic measurement data is collected on facility groups or features. The available traffic measurements are:

- Incoming peg count
- Outgoing peg count
- Overflow peg count
- Traffic usage
- Maintenance usage for each group of facilities selected.
- Other related usage information

Printouts

The customer can specify the format of the printout including identification of the groups of facilities to be measured, column and row labels and the printout time schedule. This time schedule includes both the days of the week and the hours during the day the printout is to occur. Printouts, however, are restricted to occurrences on the hour, on the half-hour or daily.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.16

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

I. Customer Traffic Record Feature (Cont'd)

Facility Assurance Report

A Facility Assurance Report consisting of a Non-Usage Trunk Scan (NUTS) and Locked-Up Trunk Scan (LUTS) is a CTRF option.

The NUTS data consists of a list of all customer facilities (excluding WATS) not busy on incoming or outgoing calls during the preceding 2 hours. LUTS provides a list of all facilities locked up (off-hook) during the preceding 2 hours. The customer has the option of selecting a printout which lists facilities that were not busy on an incoming call or a printout which lists facilities that were not busy on any call. The NUTS and LUTS data is transmitted to the customer via the teletypewriter or data terminal every 2 hours starting 15 minutes after even hours. The interval and starting times are not changeable.

(3) Service Establishment Charge - a nonrecurring charge of \$7,910.71 applies for the establishment of the Customer Traffic Record Feature Common Equipment.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.16

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

1. Customer Traffic Record Feature (cont'd)

(4) Rates and Charges

USOC	Nonrecurring Charges	Optional Payment Periods		
		1 Month	36 Months	60 Months
Common Equipment (including Central Office data set) required to collect and transmit CTRF data, each system ^{/1}	NFB	\$377.29	\$206.90	\$206.90
Customer Premises Equipment ^{/2}				(C)
Traffic Measurements provides, at the customer's option: incoming peg count, outgoing peg count, overflow peg count, traffic usage, maintenance usage, and similar usage information				
- per label (column or row descriptor)	NFE	4.26	-	-
- per traffic measurement selected	NFG	4.26	-	-
- per line, a maximum of one printout in any one hour	NFP	-	27.99	27.99
- per line, a maximum of two printouts in any one hour	NFQ	-	42.60	42.60

/1/ In addition, a Telegraph Grade Special Access Service is required between the serving wire center common equipment and the data receiving equipment at the customer premises. The monthly rates and nonrecurring charges provided via unregulated Dedicated Communications Service are additional. (C)

/2/ A customer premises teletypewriter is required to receive transmitted data. (C)

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

1. Customer Traffic Record Feature (Cont'd)

(4) Rates and Charges

Facility Assurance Report
(NUTS and LUTS), each facility reported.

<u>USOC</u>	Nonrecurring <u>Charges</u>	Optional Payment Periods		
		<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
NFK	\$3.65	\$0.30	\$0.30	\$0.30

(5) Additions and Rearrangements

Traffic Measurements

- Subsequent addition to, removal from, or rearrangement of the customer's printout format, the features or facility groups measured, or the column or row labels, each occasion 4.26
- Change printout time schedule, each occasion 24.34

Facility Assurance Report

Subsequent addition or removal of facilities from the report, each occasion 3.65

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.16.1

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****I. Customer Traffic Record Feature (Cont'd)****(6) Cancellation Charges**

Cancellation charges apply in the event of the following:

- Cancellation after the installation of the required equipment and facilities is completed, but before service is established. The nonrecurring charge for the establishment of the CTRF common equipment is applicable.
- Cancellation of service before the installation is completed. A charge consisting of the loss on equipment and facilities in the process of being installed, the installation labor, the labor cost of removal and other costs are applicable.

m. Busy Verification By Attendant**(1) General**

- (a) The Busy Verification by Attendant feature allows the Centrex attendant to establish a connection to an apparently busy trunk (i.e., Foreign Exchange, Tie and CCSA) or station line to determine if the trunk or line is in working order. When the attendant is connected to the busy trunk or station line, periodic bursts of tone are applied to alert the talking practices of the attendant's presence.
- (b) Busy Verification by Attendant is only provided in association with Centrex systems served from No. 1 ESS Central Offices. In addition, the customer's attendant position must be a 5IA type data link console.
- (c) Busy Verification by Attendant cannot be provided on WATS or colocated CCSA facilities.
- (d) Busy Verification by Attendant is also subject to availability of facilities.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.15.16.1 and Original Sheet S-15.17

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****m. Busy Verification By Attendant (Cont'd)****(2) Rates Optional Payment Periods**

<u>Busy Verification</u>	<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
<u>Trunks</u>					
- per system	EDSVT	\$97.36	\$3.35	\$3.35	\$3.35
- per trunk group		16.39	-	-	-
<u>Station Lines</u>					
- per system	EDSVS	97.36	3.65	3.65	3.65

n. Attendant Account Display Feature**(1) General**

- (a) The Attendant Account Display Feature is provided by means of an adjunct unit to the standard Centrex console./a/ This feature enables the attendant to display and record account information (such as access code, CDAR account number and dialed telephone number) on incoming or outgoing calls.
- (b) The Attendant Account Display Feature is only provided in association with Centrex system served by No. 1 ESS central offices equipped to provide this feature.
- (c) Suspension of service is not offered on this feature.

/a/ The rates and charges listed in this section pertain only to the adjunct unit. Rates and charges for the attendant console are covered separately in other sections of this Guidebook.

(C)

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****n. Attendant Account Display Feature (Cont'd)****(2) Feature Description**

The Attendant Account Display Feature enables the attendant to enter customer account information and the called Centrex station number into the console memory./a/ Upon operation of a console key by the attendant, the account information is transmitted to the central office where the CDAR function occurs. The account information is then recorded and the call is extended to a facility.

(3) Initial Contract Period, Cancellation and Termination Charges

(a) The initial contract period for the Attendant Account Display Feature is five years. The contract period starts on the date the Company notifies the customer that the service is established and ready for use.

(b) Cancellation and Termination Charges

- Termination charges are equal to 50X of the monthly charges for the unexpired period of the contract, based on the rates in effect at time service is established for the portion or portions of the service discontinued.
- Cancellation charges apply in the event of the following:
 - Cancellation after the installation of the required equipment and facilities is completed, but before the service is established. The termination charge specified in (a) above is applicable. In addition, the nonrecurring charges for the system are also applicable.
 - Cancellation of service before installation is completed. A charge consisting of the loss on equipment and facilities in the process of being built or installed, the installation labor, the labor cost of removal and other costs is applicable.

/a/ Rates and charges for Station Message Detail Recording (SMDR) and Customer Dialed Account Recording (CDAR) are specified elsewhere in this Guidebook.

(C)

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

n. Attendant Account Display Feature (Cont'd)

(4) Rates Optional Payment Periods

<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
<u>Control Equipment</u> Each console equipped with the Attendant Account Display Feature	ZX5EU	\$225.15	\$73.02	\$73.02
<u>Common Power Equipment</u> Each 10 or less consoles equipped with the Attendant Account Display Feature	ZX5EV	523.32	60.86	60.86
<u>Nonrecurring Charges</u>				
<u>Subsequent Additions to Existing Systems Equipped with the Attendant Account Display Feature</u> For one or more consoles equipped with the display feature at the same time				\$912.78/a/

Service Establishment Charge - a nonrecurring charge of \$5,876.23 applies for the establishment of the Attendant Account Display Feature.

/a/ In addition to the preceding charges for the Control and Common Power Equipment.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.18.1

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

o. Optional Multi Line Hunting Arrangements

(1) General

- The optional multi line hunting arrangements described herein are only provided in association with Centrex systems served from No. 1 ESS Central Offices equipped to provide these arrangements.
- Suspension of service is not offered for these arrangements.

(2) Feature Descriptions

Calls Waiting Indication - provides a visual indication of the length of time the longest call in queue is experiencing. Up to three timing indications are available per queue. The timing thresholds may be specified in increments of six seconds from 6 to 42 seconds. The time delay activating each arrangement is customer specifiable.

Circle Hunt - permits a complete hunt over all of the station lines in a particular Multi Line Hunt Group (MLHG). Hunting starts with the dialed number and continues to the last terminal prior to the dialed number in the MLHG. Circle Hunt is only provided with Uniform Call Distribution, Preferential Hunt or Multiple Position Hunt.

Delay Announcement - provides single or multiple fixed delay announcements to incoming calls which indicates there will be a delay before answer. Each announcement is fixed at 11 seconds in length. The content of each announcement is customer specifiable.

Make Busy Arrangements

Station Make Busy - permits a station line to appear busy to incoming calls. The station is still able to originate calls.

Group Make Busy - permits an entire Multi Line Hunt Group to appear busy to incoming calls. Incoming calls receive a busy tone when this feature is activated. Stations are still able to originate calls.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.19

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)
 - o. Optional Multi Line Hunting Arrangements (Cont'd)
 - (2) Feature Descriptions (Cont'd)

Multi Line Hunt Grout (MLHG) - allows calls to hunt over a specified group of station lines in an attempt to connect the calling party to an idle line within the group.

Multiple Position Hunt (MPH) - distributes calls over a group of up to 16 line-loop attendant positions each of which can handle up to six types of calls (e.g., Dial "0", directory number, etc.). Incoming calls are routed only to idle positions with a loop for that type of call. The MPH feature is available only with the 50B Console or equivalent system. Only MLHG lines can be used with the MPH feature.

Night Transfer - provides the capability to transfer calls from a station group to another specified answering location. The customer can activate or deactivate the night transfer feature by means of a customer premises located key for each station group equipped with this feature.

Non-Hunt Telephone Number - a MLHG can contain station lines which have associated non-hunt directory numbers. If the station line is busy on a call, another call to the non-hunt number will receive busy treatment. If the station has an associated make busy key activated, a call to the non-hunt number will complete to the station. These non-hunt numbers are not in the MLHG and do not have access to the MLHG or MPH features.

Preferential Hunt - permits a prehunt over a preferential list of station lines before hunting the entire MLHG. Each station can be associated with a particular preferential list within a MLHG.

Queuing - permits incoming calls to be held awaiting the availability of an idle station line and to be unloaded from the queue on a first-in, first-out basis. A queue slot is required for each call held in queue.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.19 and
Original Sheet S-15.19.1

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

o. Optional Multi Line Hunting Arrangements (cont'd)

(2) Feature Descriptions (cont'd)

Silence or Customer Provided Music - is an arrangement that provides either silence or customer provided music instead of ringing to a calling party after the first delay announcement and between subsequent announcements.

Uniform Call Distribution (UCD) - is a hunting arrangement that provides even distribution of incoming calls to station lines of a MLHG.

	USOC	Nonrecurring Charges	Optional Payment Periods		
			1 Month	36 Months	60 Months
(3) Rates and Charges					
Uniform Call Distribution^{/1}					
- Per MLHG equipped	A6T	\$ 51.12	-	-	-
- Each station line in the hunting group	A6V	3.35	\$ 0.37	\$ 0.37	\$ 0.37
Multiple Position, Hunt (includes Circle Hunt and Position Busy ^{/2} features)					
- Common equipment, per hunt group equipped	MPV	280.00	25.00	25.00	25.00
- Per attendant access line equipped	MP8	16.00	-	-	-
- Per position equipped	MP7	50.00	4.00	4.00	4.00

/1/ Includes Circle Hunt feature.

(C)

/2/ In addition, apply rates and charges provided via unregulated Dedicated Communications Service, for a 2 wire voice grade Direct Analog Service.

(C)

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

o. Optional Multi Line Hunting Arrangements (Cont'd)

	USOC	Nonrecurring Charges	Optional Payment Periods	1 Month	36 Months	60 Months	
(3) Rates and Charges (cont'd)							
Preferential Hunt^{/1/}							
- Per MLHG equipped	EH7	\$ 54.77		-	-	-	(C)
- Per station line equipped	EH8	14.60		\$ 1.64	\$ 1.64	\$ 1.64	
Queuing^{/2/}							
- Common Equipment	A8A	255.59		19.17 ^{/2/}	19.17	19.17	(C)
- Per station line arranged for queuing ^{/3/}	A82	25.56		7.03 ^{/2/}	7.03	7.03	(C)
- Additional queue slots (where facilities permit), each	A83RA	-		1.73 ^{/2/}	1.73	1.73	(C)
Make Busy Arrangements^{/2/4/}							(C)
- Per station line group	A9A	19.17		1.73	1.73	1.73	
- Per station line	A6G	19.17		1.73	1.73	1.73	
Night Transfer^{/2/4/}							(C)
- Per station group equipped	A3T	19.17		2.23	2.23	2.23	(C)

/1/ Includes Circle Hunt feature.

/2/ These items, rates and charges are the same as provided for ESS-ACD Type A service.

/3/ Includes one-half of a queue slot per station line.

/4/ In addition, apply rates and charges for a 2 wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service. (C)

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

o. Optional Multi Line Hunting Arrangements (cont'd)

	USOC	Nonrecurring Charges	1 Month	36 Months	60 Months	Optional Payment Periods
(3) Rates and Charges (cont'd)						
Calls Waiting Indication ^{1/2/} , per unique timing state	A66CE	\$ 31.95	\$ 3.83	\$3.83	\$3.83	
Delay Announcement ^{2/}						(C)
- Per Announcement (maximum of 4 where facilities permit)	A8GCE	159.74	70.28	70.28	70.28	(C)
- Per Announcement trunk	A8GAT	95.84	14.06	14.06	14.08	
- Per station line	A8GST	-	3.21	3.21	3.21	
Silence or Customer Provided Music ^{3/} after Delay Announcement	A5T	91.28	7.30	7.30	7.30	(C)

/1/ Requires a control channel per timing state. Apply rates and charges provided via unregulated Dedicated Communications Service for a 2 wire voice grade Direct Analog Service. (C)
 /2/ These items, rates and charges are the same as provided for ESS-ACD Type A service. (C)
 /3/ In addition, rates and charges provided via unregulated Dedicated Communications for a 2 wire voice grade Direct Analog Service apply. (C)

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

o. Optional Multi Line Hunting Arrangements (Cont'd)

<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>Optional Payment Periods</u>		
		<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
(3) Rates and Charges (Cont'd)				
<u>Foreign Exchange (FX)</u>				
<u>Termination /a/</u>				
- Per trunk group equipped	TCR	\$97.36	-	-
<u>800 Service termination /a/</u>				
- Per 800 Service group equipped	TCR	97.36	-	-
<u>Non-Hunt Telephone Number</u>				
	NHL	13.39	-	-

/a/ A termination is required for each PX or 800 Service group utilizing either UCD or Preferential Hunt features. In addition, a queue slot is required for each EX or 800 Service facility.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.20.1

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****o. Optional Multi Line Hunting Arrangements (Cont'd)**

(4) Changes and Rearrangements	<u>Nonrecurring Charge</u>
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Uniform Call Distribution

- To change station treatment codes or class of service codes in a UCD hunt group, each	\$14.60
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Preferential Hunt

- To change station treatment codes or class of service codes in a Preferential Hunt group	14.60
- To rearrange or delete stations within a Preferential Hunt list, per list affected.	14.60

Multiple Position Hunt

The following charges apply for changes or rearrangements of the MPH feature.

- Multiple Position Hunt group	95.00
- Multiple Position Hunt Attendant Access Line	18.00
- Multiple Position Hunt position	40.00

Delay Announcements

- For the change of a Delay Announcement recording	109.53
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Other Changes or Rearrangements

- For other changes or rearrangements not covered above, the charges will be determined separately for each case in accordance with the provisions for establishing charges for special equipment and arrangements covered elsewhere in this Guidebook.	(C)
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CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

p. Dial Station Transfer - All Calls

- (1) Dial Station Transfer - All Calls is available with Centrex II Systems or Feature Group 2 of a Combined Centrex system served by ESS Central Office facilities which can be arranged to provide the service.
- (2) The Dial Station Transfer - All Calls Feature is provided in conjunction with Consultation Hold and Add-on. The Transfer - All Calls feature permits the station user to transfer an incoming or outgoing call (either an exchange service line or another station line) to another station on the same system without the assistance of the attendant or to the attendant on the same system.
- (3) In No. 1 ESS Central Offices, an optional arrangement associated with Dial Station Transfer - All Calls for Centrex II Systems or Feature Group 2 of Combined Centrex Systems permits a station user to transfer an established call, via Consultation Hold and Add-On, to another station or to the attendant on the same system or to add-on a call outside the system as long as one station user remains on the call. Quality of transmission is not assured when a call outside the system is added on.
- (4) When this feature is provided with Centrex systems, it must be applied to all stations in the System. For Centrex systems, this feature must be applied to all stations in the Common block, whether that Common Block is (1) a Centrex II CO, (2) Feature Group 2 of a Combined Centrex or (3) one of the Common Blocks that constitute a Split Service Feature.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.21

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****p. Dial Station Transfer - All Calls (Cont'd)****(5) Charges**

The charges for the Dial Station Transfer - All Calls feature are in addition to the charges for the Centrex System lines and other services or features.

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
- Per working station line	CM3	-	\$0.48
- Per system		\$32.77/a/	

To add or delete the optional arrangement described in (3) above on existing Centrex Systems that have the basic Dial Station Transfer - All Calls feature, the Nonrecurring Charge specified above applies.

/a/ Not applicable when installed at same time as the Centrex system.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.21

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

q. Attendant Trunks

- (1) Supplemental Attendant Trunks are trunks to the attendant position from the switching equipment in addition to those provided as a standard feature of the Centrex system. They are available where facility conditions permit with Centrex systems. A dialing code other than "0" is assigned, which reduces the station capacity of the system.
- (2) Digit Absorbing Attendant Trunks are designed for Centrex systems equipped with attendant consoles. These trunks permit 7 or 10 digit dialing to the attendant from CCSA Access lines.

	<u>USOC</u>	Nonrecurring Charges	<u>Optional Payment Periods</u>		
			<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
(3) Charges					
Supplemental Attendant Trunks, each	P25	\$16.39	\$7.55	\$7.55	\$7.55
Digit Absorbing Attendant Trunks,					
- 1st trunk	ATG	16.39	15.42	15.42	15.42
- Additional trunks, each	AT2	16.39	7.74	7.74	7.74

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.22

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

r. Switching Arrangements

- (1) Switching arrangements are provided whereby the customer or authorized user may connect two or more separate private line channels so as to form through two-point connections over the channels.
- (2) For any single call, up to four two-point channels may be sequentially connected in tandem under control of the user. For more than four two-point connections, if made, the Company makes no representations as to the quality of transmission.
- (3) Tandem Dial Switching Arrangement

The Tandem Dial Switching Arrangement provides for connection of incoming dial selective type private line channels to other private line channels and Central Office lines by dial operation from the calling station.

Charges

	Nonrecurring Charge	Optional Payment Periods			Termination Charge Base/a/
		1 Mo.	36 Mos.	60 Mos.	
Tandem Dial Switching Arrangement, Per Private Line Channel Terminal Equipped	\$16.39	\$4.87	\$4.87	\$4.87	\$98.69

(4) Other Switching Arrangements

Other switching arrangements not covered above will be furnished where practicable. Charges will be determined separately in each case in accordance with the provisions for establishing charges for Special Equipment and Arrangements specified in Tariff M.P.S.C. No. 20 R, Part 2, Section 7.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.23

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

s. Tie Line Features

(1) These features are provided, where facility conditions permit, at the following rates which are in addition to the established charges for type of channels and signaling capability.

(2) Tie Line Features - (4 wire voice grade Direct Analog Service) between PBX systems.

USOC	Nonrecurring Charges	Optional Payment Periods		
		1 Month	36 Months	60 Months

(a) Dial Type Feature

- Tie Line Termination per Trunk Group	\$200.00	-	-	-
- Tie Line Termination per Trunk Unit	11.00	\$70.00	\$70.00	\$70.00

(b) Signaling capability is applied, for each termination of a 4 wire voice grade Direct Analog Local Distribution Channel at the rates and charges provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers. (C)

(C)

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

s. Tie Line Features (cont'd)

(3) Electronic Tandem Switching (ETS) Type Tie Lines

An ETS-type tie line termination is provided in association with the ETS features of Automatic Route Selection Deluxe and Uniform Numbering/Automatic Alternate Routing.

Tie Line Terminations

USOC	Nonrecurring Charges	Optional Payment Periods		
		1 Month	36 Months	60 Months
- Per equipped ETS Centrex system; ETS-type tie line terminations, each	ETX	\$60.86	\$40.16	\$40.16
- Centrex systems - apply Dial Type Feature charges specified elsewhere in this Guidebook.				(C)

For 4 wire voice grade Direct Analog Service and Signaling Capability, the rates and charges provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers apply.

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

s. Tie Line Features (Cont'd)

(4) Advanced Private Line Termination Feature

General

- The Advanced Private Line Termination (APLT) feature is used to connect tie lines, private line facilities and access lines from switched private line service to dial switching equipment. It may also be used when compatible with and required for termination of facilities by Other Common Carriers (OCCs).
- APLT is provided only in association with Centrex systems served by No. 1 ESS central offices equipped to provide this feature.
- Suspension of service is not offered for this feature.

Charges

	<u>USOC</u>	Nonrecurring Charges	Optional Payment Periods		
			<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
- Advanced Private Line Termination, each	PLS	\$25.56	\$109.53	\$109.53	\$109.53

Service Establishment Charge - a nonrecurring charge of \$608.51 applies for the establishment of the APLT feature.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.24.1

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

t. Conference Equipment

- (1) Conference equipment is designed to provide the simultaneous interconnection of several station lines or a central office trunk and several station lines through a Centrex system.
- (2) Attendant conference permits an attendant to establish a conference call between station lines only or station lines and a Central Office trunk.
- (3) Charges

Conference equipment is furnished at the following charges, subject to transmission limitations.

<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>Optional Payment Periods</u>		
		<u>1 Mo.</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
Manual Type				
- Centrex systems equipped with consoles. Five station lines or one Central Office trunk and four station lines capacity	CEG	\$16.39/a/	\$25.47	\$25.47
				\$25.47

/a/ Not applicable if installed at the same time as the Centrex system.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.25

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

u. Attendant Control of Facilities

(1) General

The Attendant Control of Facilities (ACOF) feature is provided only in association with Centrex systems served by No. 1 ESS Central Offices equipped to provide this feature.

Suspension of service is not offered for this feature.

(2) Feature Description

ACOF allows the attendant to restrict dial access of dial station terminals to Foreign Exchange, WATS, CCSA, and Tie Line facilities associated with the system. In addition, other special services such as paging or dictation trunk facilities may be restricted. Control of those facilities by the attendant is accomplished by means of special control keys. The number of facility groups that can be associated with one control key will vary depending upon the arrangement provided.

When ACOF is activated, calls to those facilities are routed either to the attendant for completion or to a common Centrex announcement. Calls in progress using the restricted facility are not affected by ACOF activation or deactivation.

Access to facilities via speed calling lists is not affected by ACOF.

(3) Charges

The following rates and charges are for the ACOF only and are in addition to the rates and charges for a 2 wire voice grade Direct Analog Service control channel between the serving wire center and the customer premises provided via unregulated Dedicated Communications Service.

(C)
(C)
(C)
(C)

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

u. Attendant Control of Facilities (Cont'd)

(3) Charges (Cont'd)

	USOC	Nonrecurring Charges	Optional Payment Periods		
			1 Mo.	36 Mos.	60 Mos.
Attendant Control of Facilities, per facility group to which access is denied					
- With call routing to the attendant	E22	\$114.85	\$7.31	\$7.31	\$7.31
- With call routing to a common Centrex announcement	E23	114.85	88.75	88.75	88.75

(4) Moves, Changes or Rearrangements

- For a change or rearrangement of a facility group equipped with ACOF, a nonrecurring charge of \$17.75 applies for each facility group affected.
- For a change in call routing from the attendant to an announcement, or vice versa, the call routing nonrecurring charge applies.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.26

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

v. Traffic Engineering for Automatic Route Selection (TEARS)

(1) Description

At a customer's request, the Company will provide an Automatic Route Selection (ARS) design recommendation based upon available traffic data and configured using Company traffic-engineering principles. Included in the charges is a Company printed copy of the data. The accuracy of the recommendation depends upon the available data and the assumptions used; it is not a guarantee of future performance. The customer must advise the Company of the ARS design to be used.

(2) Charges

	<u>USOC</u>	<u>Nonrecurring Charges</u>
Tape summarization procedure - applicable when the tape summary module of the TEARS program is used to provide tape summarization of the customer's traffic		
Each occasion		
- 1st 10,000 calls or fraction thereof processed	\$2,240.45	
- Each additional 1,000 calls or fraction thereof processed	64.86	
Manual input procedure - applicable when summarized data is available and is manually fed into the ARS engineering module of the TEARS program.		
Each occasion		
- 1st 10,000 calls or fraction thereof processed	2,358.37	
- Each additional 1,000 calls or fraction thereof processed	56.61	

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.27

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

w. Direct Connect Feature

(1) Description

- (a) The Direct Connect feature allows a preassigned number to be dialed automatically when dial tone is detected on the Centrex station line.
- (b) Calls may be directed to other stations on the same Centrex system, to other telephones via exchange trunks, CCSA trunks, tie lines, or to other miscellaneous trunks such as loudspeaker paging.
- (c) The Direct Connect feature is provided only with Centrex systems served from No.1 ESS Central Offices equipped to provide this feature.
- (d) Suspension of service is not offered for this feature.

(2) Rates and Charges

Direct Connect	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
- Per station line equipped	ODC	\$50.00	\$1.00

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.28

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****x. Station Dial Conference Feature****(1) Description**

- (a) The Station Dial Conference feature allows a station user to establish a conference connection with a maximum of six conferees (including the conference controller) without the aid of the attendant.
- (b) The Station Dial Conference feature is provided with Centrex II, III B and III C Feature Group 2 systems and Electronic Telecommunications Services - Service Plan I served from ESS Central Offices equipped to provide this feature.
- (c) Suspension of service is not offered for this feature.

(2) Rates and Charges

Station Dial Conference	<u>USOC</u>	Nonrecurring <u>Charge</u>	Monthly <u>Rate</u>
- Per feature (6 port)	EAN	\$260.00	\$110.00
- Per station line equipped	EGJ	15.70	

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.29

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

y. Loudspeaker Paging Access Feature

(1) General

The Loudspeaker Paging Access feature is provided only in association with Centrex systems served by electronic Central Offices equipped to provide this feature.

Suspension of service is not offered for this feature.

(2) Feature Description

The Loudspeaker Paging Access feature allows Centrex attendants and station users to dial access customer premises loudspeaker paging equipment on either a single zone or multizone basis.^{1/1}

(C)

Optional arrangements may be provided to allow the paged party to be connected to the calling party by dialing an answering code from any station within the Centrex group.

(3) Rates and Charges

		USOC	Nonrecurring Charge	Monthly Rate	
Loudspeaker Paging Access					
(a)	One-way Outgoing, Single Zone Paging ^{1/2} Station, Attendant and Tie Line Access; Rotary Dial or TOUCH-TONE				(C)
	- First trunk	WOX1	\$210.00 ^{1/3}	\$50.00	(C)
	- Additional trunks, each	WOXA	25.00	50.00	
(b)	One-way Outgoing with Multizone Paging ^{1/2} Station, Attendant and Tie Line Access; TOUCH-TONE				(C)
	- First trunk	WPT1	230.00 ^{1/3}	55.00	(C)
	- Additional trunks, each	WPTA	25.00	55.00	

/1/ Customer required to provide suitable interface unit.

(C)

/2/ Requires a 2-wire voice grade Direct Analog Service at rates and charges provided via unregulated Dedicated Communications Service.

/3/ The nonrecurring charge includes provision of one access code.

(C)

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

y. Loudspeaker Paging Access Feature (cont'd)

(3) Rates and Charges (cont'd)

	USOC	Nonrecurring Charge	Monthly Rate	
Loudspeaker Paging Access (cont'd)				
(b) One-way Outgoing with Multizone Paging ^{/1} (cont'd) Station, Attendant ^{/2} and Tie Line Access; Rotary Dial				(C)
- First trunk	1WPR1	\$230.00 ^{/3}	\$62.00	(C)
- Additional trunks, each	1WPRA	25.00	62.00	
				(C)
(c) One-way Outgoing, Single or Multizone with Answer Back Station, Attendant ^{/2} and Tie Line Access; Rotary Dial or TOUCH-TONE				
- First trunk	1WXQ1	230.00 ^{/3}	65.00	(C)
- Additional trunks	1WXQA	25.00	65.00	(C)

/1/ Requires a 2-wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service. (C)

/2/ Not available for use with the 51A attendant console. (C)

/3/ The nonrecurring charge includes provision of one access code. (C)

CENTREX IV (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

z. Recorded Telephone Dictation Access Feature

(1) General

The Recorded Telephone Dictation Access feature is provided only in association with Centrex systems served by electronic Central Offices equipped to provide this feature.

Suspension of service is not offered for this feature.

(2) Feature Description

The Recorded Telephone Dictation Access feature permits access to and control of customer premises telephone dictating equipment by stations, tie trunks and Centrex attendants within the Centrex system.^{/1/} Station access may be via TOUCH-TONE or rotary dial. Attendant and tie trunk access must be via TOUCH-TONE.

(3) Rates and Charges

	USOC	Nonrecurring Charge	Monthly Rate
Recorded Telephone Dictation Access			
Station Access; Rotary Dial ^{/2/}			
- First trunk	EDR	\$230.00 ^{/3/}	\$60.00
- Additional trunks, each	EDRRA	25.00	60.00
Station, Tie Line and Attendant Access; TOUCH-TONE ^{/2/}			
- First trunk	EDN	230.00 ^{/3/}	55.00
- Additional trunks, each	EDNTA	25.00	55.00

/1/ Customer required to provide suitable interface unit.

/2/ Requires a 2-wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service.

/3/ The nonrecurring charge includes provision of one access code.

(C)

(C)

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)**

3. Optional Features (Cont'd)

aa. Radio Paging Access Feature

(1) General

The Radio Paging Access feature is provided only in association with Centrex systems served by electronic Central Offices equipped to provide this feature.

Suspension of service is not offered for this feature.

(2) Feature Description

The Radio Paging Access feature allows direct calls from stations, attendants, dial repeating tie trunks and common control switching arrangements (CCSA), to be completed by customer premises paging equipment.^{/1/} The customer accesses the paging equipment by dialing an access code assigned by the Company.

Paging calls from ring down tie trunks and automatic tie trunks must be completed by the attendant.

(C)

(3) Rates and Charges

	USOC	Nonrecurring Charge	Monthly Rate	
Radio Paging Access				
Station Access, Rotary Dial ^{/2/}				
- First trunk	RPFR1	\$230.00 ^{/3/}	\$40.00	(C)
- Additional trunks, each	RPFRA	25.00	40.00	(C)
Station _{1/2} , Tie Line and Attendant Access, TOUCH-TONE ^{/2/}				
- First trunk	RPFT1	230.00 ^{/3/}	35.00	(C)
- Additional trunks, each	RPFTA	25.00	35.00	(C)

/1/ Customer required to provide suitable interface unit.

(C)

/2/ Requires a 2 wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service.

/3/ The nonrecurring charge includes provision of one access code.

(C)

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****ab. 800 Service Call Transfer Feature****(1) Description**

The 800 Service Call Transfer feature permits the termination of an 800 Service line in the Centrex customer's serving CO and in a station at the customer's premises. After the 800 Service line has been answered at the 800 Service terminated station, the station user may transfer the call to other station lines within the customer's Centrex system.

(2) Regulations

- This feature is provided only in association with Centrex CO systems served by No. 1 and No. 1A ESS central offices equipped to provide this feature.
- This feature is provided on an 800 Service line only when the 800 Service facility terminates in the same serving office as the customer's Centrex system.
- This feature is provided only for the completion of 800 Service calls.
- This feature arrangement does not permit outgoing calls.
- A Centrex station equipped with 800 Service Call Transfer feature may also be equipped with the basic features normally provided with a Centrex station.
- The only additional Centrex optional features that may be provided with a station equipped with the 800 Service Call Transfer feature are: Call Pickup and Call Hold.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.33

CENTREX IV (Cont'd)**F. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****ab. 800 Service Call Transfer Feature (Cont'd)****(3) Rates and Charges**

The following rates and charges for the 800 Service Call Transfer feature are in addition to the rates and charges for the termination of an 800 service line in a Centrex system.

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
- 800 Service Call Transfer Feature, per 800 Service line/a/	YYO	\$70.00/b/	

/a/ In addition, the monthly rate for the appropriate Centrex station line specified elsewhere in the tariff applies.

/b/ The nonrecurring charge does not apply except for Electronic Telecommunications Service - Service Plan I, if provided at the time of initial installation of the Centrex system.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.33

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

ac. Remote Access Feature

(1) Description

- (a) Remote Access is a Central Office arrangement that permits a user at a location remote from the customer's premises to access the service facilities of the Centrex system via the exchange network.
- (b) Access is accomplished by dialing a dedicated number from a telephone set equipped for TOUCH-TONE® dialing or equivalent tone-type address signaling, or from a telephone set where a separate acoustically coupled multifrequency tone generator is used.

(2) Feature Description

Remote Reoriginate - permits the calling party to originate second call through the Centrex system in the event of a dialing error, busy signal, etc., without redialing the dedicated number and the authorization code.

Call Timeout - permits a customer to limit the duration of a call made by the calling party. The Call Timeout Feature can be programmed to set call limits at 5, 10, 15 or 20-minute intervals. Call Timeout will be reset when the Remote Access feature is reaccessed.

TOUCH-TONE to Dial Pulse Converter - converts TOUCH-TONE signals received to dial pulse when the Centrex station line associated with the Remote Access unit is not equipped with TOUCH-TONE service.

Security Code - permits the user to access the same service facilities as the Centrex internal station user. Security is provided by entry of a three-digit code. The caller will be automatically disconnected after dialing the third digit if the code is incorrectly entered.

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Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.34

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

ac. Remote Access Feature (Cont'd)

(3) Regulations

- (a) The Remote Access feature is provided only in association with Centrex CO systems and where central offices are equipped to provide this feature.
- (b) The customer is responsible for charges on all messages originated through this service.
- (c) The Remote Access feature is provided on the condition that the customer is required to contract for adequate facilities to permit the use of the service without injurious effect upon the general telephone service as specified in Tariff M.P.S.C No. 20 R, Part 2.
- (d) The grade of transmission of calls made through the Remote Access feature may vary depending on the distance and routing necessary to complete the overall connection. Therefore, the quality of transmission is not assured. Use of the Remote Access feature is not represented as suitable for satisfactory transmission of data.
- (e) Suspension of Service is not offered for this feature.
- (f) Nonrecurring charges and monthly rates for the Remote Access feature are in addition to the nonrecurring charges and monthly rates for associated services, such as: individual regular exchange service and Foreign Exchange Service lines, 800 Service lines, and Centrex station lines.
- (g) A dedicated Centrex station line, as individual regular exchange line, an 800 Service line, or Foreign Exchange line is required to enable the remote user to gain entry into a Remote Access feature. A Centrex station line provides access from the Remote Access feature to the Centrex system features and facilities.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.34 and
Original Sheet S-15.34.1

CENTREX IV (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

ac. Remote Access Feature (Cont'd)

(4) Rates and Charges

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Monthly Rate</u>
(a) Remote Access, full feature, each (includes Remote Reoriginate, Call Timeout, Tone-to-Pulse Converter, and Security Code)	CXT	\$250.00	\$45.00
(b) Remote Access, limited feature, each (includes Remote Reoriginate)	CXTLF	250.00	37.00
(c) Changes			
- Change Security code	CXTNR	40.00	
- Change Call Timeout limit		40.00	
- Change Security Code and Call Timeout limit at same time		60.00	
- Change from full feature to limited feature service or vice versa		40.00	

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.34.1

CENTREX V /a/

A. SUSPENSION OF SERVICE

Suspension of service, except for Dormitory Service station lines, is not offered for the Centrex V system.

/a/ Rates in effect for services no longer offered for new installations

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.50.2

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS

1. System

Automatic Route Selection - Basic (ARS-B) - provides for dial completion of outgoing calls, from Centrex station lines over a variety of available facilities subscribed to by the customer.

The initial route selection and up to three alternate routes in each pattern are arranged as specified by the customer. A maximum of 64 patterns may be provided where facility conditions permit.

By dialing an access code for a group of patterns and a 7 to 11 digit telephone number, Automatic Route Selection - Basic automatically selects the preferred routes to complete the call, and if no route is available, overflows to either:

- The local exchange trunks provided with the Centrex system, or
- To an overflow tone, upon condition that the customer contract for sufficient facilities which, in the judgment of the company, provide an adequate level of service.

Within the limitations of the equipment certain types of calls will not complete over Automatic Route Selection - Basic facilities, e.g., operator handled calls, local calls and calls over facilities not associated with Automatic Route Selection - Basic.

- Facility - denotes a specific foreign exchange (zone) trunk, WATS line (by band or Numbering Plan Area), CCSA off-network access line, tie line (dial selected and selective type - outgoing) or compatible Other Common Carriers one-way outward access line. These lines require outward service, senderized operation, and uniform numbering consistent with the MTS network.
- Route - consists of one or more lines of the same type facility that the customer may use to reach 7 to 11 digit telephone numbers.
- Pattern - a group of four or less routes arranged to be selected in a sequence specified by the customer. A pattern may include more than one Numbering Plan Area. The number of patterns required by a customer are dependent on the type and variety of facilities subscribed to by the customer.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Automatic Route Selection - Basic (ARS-B) (Cont'd)

- Route Selection - the automatic selection of the preferred route upon dialing of an access code and a 7 to 11 digit telephone number by the station user. The automatic route selection patterns may be arranged for three digit translation (NPA Code) or six digit translation (NPA Code and the Central Office code) to determine the preferred route depending on the customer's requirements.
- Selected Customer Control of Facilities (SCCOF) - provides a Centrex attendant with the ability to make an individual facility group inaccessible to users. The SCCOF feature is activated and deactivated by control of the attendant. When the feature is activated on a facility group, all traffic will proceed to the next idle route in the route selection pattern. Selected Customer Control of Facilities may be furnished with Automatic Route Selection - Basic, Automatic Route Selection Deluxe or other facilities such as WATS.

Common Control Switching Arrangement (CCSA) Access - provides access to an Interstate Common Control Switching Arrangement of dial switching equipment located on Company premises for switching of a customer's interstate private line telephone services. CCSA provides the customer with his own network arrangement whereby all of the customer's stations associated with the CCSA may dial each other via CCSA access lines, regardless of location and without using regular exchange and toll facilities. Optional CCSA off-net access lines (exchange trunks, FX trunks and WATS lines) may be used for completion of calls to off-net locations.

Customer Traffic Record (CTR) - collects and reports traffic data related to a customer's Centrex system. Collected traffic data is transmitted to the customer's premises over a private line facility. The received data is provided via a teletypewriter, or where facilities permit, via a data terminal.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52 and Original Sheet S-15.52.1.

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Customer Traffic Record (CTR) (Cont'd)

Traffic Measurement Data

Traffic measurement data is collected on facility groups or features.

The available traffic measurements are:

- Incoming peg count
- Outgoing peg count
- Overflow peg count
- Traffic usage
- Maintenance usage for each group of facilities selected
- Other related usage information

Printouts

The customer can specify the format of the printout including identification of the groups of facilities to be measured, column and row labels and the printout time schedule. This time schedule includes both the days of the week and the hours during the day the printout is to occur. Printouts, however, are restricted to occurrences on the hour, on the half-hour or daily.

Facility Assurance Report

A Facility Assurance Report consisting of a Non-Usage Trunk Scan (NUTS) and Locked-Up Trunk

Scan (LUTS) is a CTR option.

The NUTS data consists of a list of all customer facilities (excluding TS) not busy on incoming or outgoing calls during the preceding 2 hours. LUTS provides a list of all facilities locked up (off-hook) during the preceding 2 hours. The customer has the option of selecting a printout which lists facilities that were not busy on an incoming call or a printout which lists facilities that were not busy on any call. The NUTS and LUTS data is transmitted to the customer via the teletypewriter or data terminal every 2 hours starting 15 minutes after even hours. The interval and starting times are not changeable.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.1 and Original Sheet S-15.52.2.

CENTREX V (Cont'd)**B. FEATURE DESCRIPTIONS (Cont'd)****1. System (Cont'd)**

Direct Inward Dialing (DID) - allows incoming calls from the exchange network (not special service circuits) to reach a specific customer group station without attendant assistance.

Direct Outward Dialing (DOD) - allows a station user to place external calls to the exchange network without attendant assistance, by dialing the DOD access code, receiving a second dial tone, then dialing the external number.

Electronic Tandem Switching (ETS) - consists of a complement of cost control, facilities management, and customer convenience features described below.

The following features require Automatic Route Selection - Deluxe as a prerequisite: Deluxe Queuing, Facilities Administration and Control, Facilities Restriction Levels, Station Message Detail Recording to Premises and or Numbering/Automatic Alternate Routing.

Electronic Tandem Switching (ETS)

Automatic Route Selection - Deluxe (ARS-D) - provides for the origination of only ten digit off-network calls to a message network telephone number, after which the ARS-D access code automatically scans the digits and selects a first choice completing route or subsequent route if the first choice route is not available. Routes may include exchange service lines, WATS lines, CCSA access lines, or other compatible arrangements.

The final completing route may be the message network or, at the option of the customer, the call attempt may be routed to overflow tone if a Facilities Restriction Level (FRL) is insufficient to complete the call.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.2 and Original Sheet S-15.52.3.

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Electronic Tandem Switching (ETS) (Cont'd) /a/

Automatic Route Selection - Deluxe (ARS-D) (Cont'd)

When ARS-D is provided in conjunction with Uniform Numbering/Automatic Alternate Routing UN/AAR), incoming tie lines from other Centrex (or PBX systems connected directly to the Centrex System may be arranged to have automatic access to the ARS-D and UN/AAR features. When such arrangements are provided, the tie lines to the ARS-D become "dedicated" tie lines. Separate tie lines are required from the other Centrex or PBX System if access is to be provided to other functions of the ARS-D System. In addition, when ARS-D is provided in conjunction with UN/AAR, routes may include tie lines to another Centrex or PBX System equipped with an ARS-D like capability for subsequent access to the message network.

The ARS-D feature provides all number translation and supervision necessary to route the call. "More Expensive Route" (MER) Tone is supplied, at the option of the customer, as a function of the route selected for a particular call.

Time of Day (TOD) Routing - is an ARS-D option which permits preprogrammed selection of alternate routing pattern groups for off-network calls (up to three sets of ARS-D routing pattern groups) on a time-of-day and day-of-week basis. Manual override is available with all the Facility Administration and Control feature. The maximum number of programmed changes permitted each week is sixteen.

Customer Administration Center(CAC) - permits the customer to administer ETS features in order to obtain traffic measurements and recent circuit assurance data from one or more switching locations. An interactive user terminal provides inputs/outputs. The following features may be provided: Facilities Administration and Control, Traffic Data to Customer, and Facilities Assurance Reports.

Deluxe Queuing - permits station users to be placed in a queue whenever the first choice route for completing a particular call is already in use. Two queuing arrangements are available:

/a/ Available only where the serving Central Office is equipped with No. 1A ESS.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.3

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Electronic Tandem Switching (ETS) (Cont'd) /a/ /b/

A Ringback Queue (RBQ) /a/, in which case the calling station line goes on-hook and is held until a facility becomes available.

An Off-hook Queue (OHQ) /a/, in which case the calling station line remains off-hook and is held in queue until a facility becomes available.

Calls held in queue beyond a predetermined time limit will be removed from the queue and be routed, at the option of the customer, via either subsequent route choices or to overflow tone.

Facilities Administration and Control /b/ - permits customer control of parameters which determine station user calling privileges; i.e., Authorization Codes and associated FRL. In addition, FRL associated with station lines, ETS tie lines and Authorization Codes may be collectively upgraded or downgraded by invoking a predetermined set of FRL's identified as Controlled Alternate FRL's. Manual control (override) of TOD Pattern Groups and activation or deactivation of queuing is also provided.

Facilities Restriction Levels (FRL)/b/ - is required in connection with ARS-D and is provided on each station line and incoming ETS tie line to determine both the types of calls and types of facilities within the privileges of the originating station user. When the FRL is transmitted over an ETS tie line to another Centrex or PBX system equipped with ARS-D (for call screening at the distant point), it is identified as a Traveling Class Mark (TCM).

Authorization Codes /b/ - are an FRL option which provide for a station user to dial a code which overrides the FRL associated with that line or incoming tie line. The system requires dialing of the authorization code when the default FRL (i.e., the FRL associated with the station line or incoming ETS tie line) has insufficient privileges to complete the call. The Authorization Code is also inspected for validity as a security check. The Authorization Code is recorded in the SMDR-P record of the call when the SMDR-P feature is provided.

/a/ Available only where the serving Central Office is equipped with No. 1A ESS.

/b/ Available only in No. 1A ESS equipped central offices.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.3 and Original Sheet S-15.52.4.

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Electronic Tandem Switching (ETS) (Cont'd) /a/

Facility Assurance Reports (FAR) - provides the customer with the ability to obtain automatic circuit assurance data. FAR includes, for example, the identity of facilities not accessed or facilities constantly off-hook during a specified period of time. FAR may be provided when the system is arranged for the Tariff Data to Customer feature.

Selected Customer Control of Facilities (SCCOF) - This feature is described under Automatic Route Selection-Basic.

Station Message Detail Recording (SMDR-P) - provides a record, on magnetic tape equipment located at the customer's premises, of calls from Centrex station lines to locations outside the same system. Facility groups may also be designated as requiring either originating or terminating records or both.

Account Codes are an SMDR-P option which permit a station user to dial a series of digits (code) which will appear in the SMDR-P record for that particular call. The Account Code can be used by the customer for account or project identification. Adding an Account Code to a call, where arrangements have been made to provide this capability, is at the discretion of the station user. Each customer's Account Codes must contain the same number of digits, not to exceed eight, and must not conflict with on-message-network code assignments.

Traffic Data to Customer - permits the customer to poll the customer's Centrex system on a daily or hourly basis to obtain certain traffic measurements. Equipment must be provided at the customer's premises to record the traffic data. Facility Assurance Reports is included with this feature.

/a/ Available only in No. 1A ESS equipped central offices.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.4

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Electronic Tandem Switching (ETS) (Cont'd)

Uniform Numbering - permits station users to place calls via an ETS Type tie line using a uniform dialing plan. The user dials an access code, followed by a seven-digit number which uniquely identifies a specific on-network line. The number consists of a three digit location code and a four digit station line code. (When the same access code is followed by a ten digit message network telephone number, the call is routed via the ARS-D feature.) The feature provides the number translation and supervision necessary to route the call.

Automatic Alternate Routing - provides automatic routing of on-network calls to alternate tie line routes when primary tie line routes are busy.

Automatic Overflow to DDD - provides completion of on-network calls via the message network when all primary and alternate tie line routes are busy.

Hospital Slumber Service - provides an intercept answering location for patient incoming telephone calls during periods when the patients should not be disturbed. Station lines serving patient room telephones may be assigned to a Slumber Group arranged according to varying patient needs for call intercept; e.g., normal sleeping hours, maternity feedings, etc.

On lines equipped for Hospital Slumber Service, incoming calls are routed either to the station lines serving patient room telephones or to an intercept location via intercept key lines. Routing is controlled by hospital personnel through the operation of a two-position Outgoing telephone service from patient telephones is not affected by the operation of the key.

The intercept lines are either supplemental attendant type trunks terminating at an attendant position, or PBX station lines extended to instruments or Automatic Public Announcement Service.

Hospital Slumber Service is furnished upon the condition that the customer subscribe to sufficient intercept lines and answering locations to avoid injurious effect upon the general telephone service as specified elsewhere in this Company's tariffs.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.5

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Hunting Arrangements, Optional

Calls Waiting Indication - provides a visual indication of the length of time the longest call in queue is experiencing. Up to three timing indications are available per queue. The timing thresholds may be specified in increments of six seconds from 6 to 42 seconds. The time delay activating each arrangement is customer specifiable.

Circle Hunt - permits a complete hunt over all of the station lines in a particular MultiLine Hunt Group (MLHG). Hunting starts with the dialed number and continues to the last terminal prior to the dialed number in the MLHG. Circle Hunt is only provided with Uniform Call Distribution, Preferential Hunt or Multiple Position Hunt.

Delay Announcement - provides single or multiple fixed delay announcements to incoming calls which indicate there will be a delay before answer. Each announcement is fixed at 11 seconds in length. The content of each announcement is customer specifiable.

Hunting Arrangement, Optional - Make Busy Arrangements

Station Make Busy - permits a station line to appear busy to incoming calls. The station is still able to originate calls.

Group Make Busy - permits an entire Multi-Line Hunt Group to appear busy to incoming calls. Incoming calls receive a busy tone when this feature is activated. Stations are still able to originate calls.

Multi-Line Hunt Group (MLHG) - allows calls to hunt over a specified group of station lines in an attempt to connect the calling party to an idle line within the group.

Multiple Position Hunt (MPH) - distributes calls over a group of up to 16 line-loop attendant positions, each of which can handle up to six types of calls (e.g., Dial "O" directory number, etc.). Incoming calls are routed only to idle positions with a loop for that type of call. The MPH feature is available only with the 50B Console or equivalent system. Only MLHG lines can be used with the MPH feature.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.5
and Original Sheet S-15.52.6

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Hunting Arrangement, Optional - Make Busy Arrangements (Cont'd)

Night Transfer - provides the capability to transfer calls from a station group to another specified answering location. The customer can activate or deactivate the Night Transfer feature by means of a customer premises located key for each station group equipped with this feature.

Non-Hunt Telephone Number - a MLHG can contain station lines which have associated non-hunt directory numbers. If the station line is busy on a call, another call to the non-hunt number will receive busy treatment. If the station has an associated make-busy key activated, a call to the non-hunt number will complete to the station. These non-hunt numbers are not in the MLHG and do not have access to the MLHG or MPH features.

Preferential Hunt - permits a prehunt over a preferential list of station lines before hunting the entire MLHG. Each station can be associated with a particular preferential list within a MLHG.

Queuing - permits incoming calls to be held awaiting the availability of an idle station line and to be unloaded from the queue on a first-in, first-out basis. A queue slot is required for each call held in queue.

Silence or Customer Provided Music - is an arrangement that provides either silence or customer provided music instead of ringing to a calling party after the first delay announcement and between subsequent announcements.

(UCD) - is a hunting arrangement that provides even distribution of incoming calls to station lines of a MLHG.

Loudspeaker Paging Access - allows Centrex attendants and station users to dial access customer premises loudspeaker paging equipment on either a single zone or multizone basis.

Optional arrangements may be provided to allow the paged party to be connected to the calling party by dialing an answering code from any station within the Centrex group.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.6

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Main-Satellite Service - is provided between Centrex CO Systems served by No. 1 ESS central office switching equipment arranged to provide the service.

Main-Satellite Service is a two-way dialing type tie line which permits 5-digit station-to-station dialing between systems of the same customer.

Limitations of the Service are -

- Dial "0" calls are routed to one attended system.
- The station line numbers of each system must have a unique third digit, e.g. (22)3-7492 on the Main system and (22)4-7492 on the Satellite system.
- Transfers of incoming calls to other station lines on the same or different system, or to the attendant will vary depending on the type of Centrex system.
- Lines or facilities terminating on one System, excluding station lines or attendant Dial "0" trunks, may be accessed via Main-Satellite Service tie Lines equipped with Tandem Dial Switching arrangements.
- One or more access codes may be required to reach lines or facilities associated with Tandem Switching or Automatic Route Selection.

Outgoing Trunk Queuing - provides station lines with off-hook queuing for outgoing WATS lines, excluding combined WATS, by direct dial access or with Automatic Route Selection (ARS).

Attendant Key Control of Interflow - provides for calls which queue for one of the lower-numbered WATS bands (schedules) to complete via a higher-numbered WATS band under conditions where the waiting period on the queue for the lower-numbered WATS band exceeds a customer's specified threshold and the queue for the higher-numbered WATS band is relatively inactive. Customer Control of Interflow from a lower-numbered WATS band to a higher-number WATS band can be achieved by providing an inhibit inflow or inhibit outflow key.

Inhibit inflow key - when operated for a higher-numbered WATS band, prohibits the queue for this WATS band from accepting calls originated for a lower-numbered WATS band.

Inhibit outflow key - when operated for a lower-numbered WATS band, prohibits calls on the associated queue from interflowing to a queue for a higher-numbered WATS band and from completing via the DDD Network.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.7

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Outgoing Trunk Queuing (Cont'd)

Music-On-Queue - provides for interconnection with a customer-provided music source. At the customer's option Music may be provided to a user on queue instead of silence or Recorded Announcement.

Priority Queuing - provides for station lines arranged for queuing to be given originating priority. Priority calls are loaded into queue ahead of nonpriority calls. When the queue is full, priority calls are routed to overflow tone or to the DDD network.

Queuing - provides for a call to be placed in a waiting line (queue) when all WATS facilities that could handle this call are busy. When a call is waiting in queue, the facility is seized immediately upon its being released by the previous call. A maximum time limit of 1023 seconds is provided for a call to remain in queue before overflowing to the DDD network or to overflow tone.

Recorded Announcement - provides one continuous repeating type announcement, at the customer's option, instead of silence or music on queue.

Silence-on-Queue - provided on a system unless the customer elects to have Music-on-Queue or Recorded Announcement.

Limitations of the offering due to type of queuing facilities:

- While in queue a station line may not utilize any system feature activated by a flash since the flash signals a disconnect to the queuing facilities.
- Interflow will not be provided between Interstate WATS and Intrastate WATS Services.
- Attendant Consoles do not have access to Outgoing Trunk Queuing.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.7 and Original Sheet S-15.52.8

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Radio Paging Access - allows direct calls from stations, attendants, dial repeating tie trunks and common control switching arrangements (CCSA) to be completed by customer premises paging equipment. The customer accesses the paging equipment by dialing an access code assigned by the Company.

Paging calls from ring down tie trunks and automatic tie trunks must be completed by the attendant.

Recorded Telephone Dictation Access - permits access to and control of customer premises telephone dictating equipment by stations, tie trunks and Centrex attendants within the Centrex system. Station access may be via TOUCH-TONE or rotary dial. Attendant and tie trunk access must be via TOUCH-TONE.

Remote Access - Is a Central Office arrangement that permits a user at a location remote from the customer's premises to access the service facilities of the Centrex system via the exchange network.

Access is accomplished by dialing a dedicated number from a telephone set equipped for TOUCH-TONE dialing or equivalent tone-type address signaling, or from a telephone set where a separate acoustically coupled multifrequency tone generator is used.

Feature Description

- Remote Reoriginate - permits the calling party to originate a second call through the Centrex system in the event of a dialing error, busy signal, etc., without redialing the dedicated number and the authorization code.
- Call Timeout - permits a customer to limit the duration of a call made by the calling party. The Call Timeout Feature can be programmed to set call limits at 5, 10, 15 or 20-minute intervals. Call Timeout will be reset when the Remote Access feature is reaccessed.
- Security Code - permits the user to access the same service facilities as the Centrex internal station user. Security is provided by entry of a three-digit code. The caller will be automatically disconnected after dialing the third digit if the code is incorrectly entered.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.8

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Remote Access (Cont'd)

Regulations

- The Remote Access feature is provided only in association with Centrex CO systems and where central offices are equipped to provide this feature.
- The customer is responsible for charges on all messages originated through this service.
- The Remote Access feature is provided on the condition that the customer is required to contract for adequate facilities to permit the use of the service without injurious effect upon the general telephone service as specified in Tariff M.P.S.C. No. 20R, part 2.
- The grade of transmission of calls made through the Remote Access feature may vary depending on the distance and routing necessary to complete the overall connection. Therefore, the quality of transmission is not assured. Use of the Remote Access feature is not represented as suitable for satisfactory transmission of data.
- Suspension of Service is not offered for this feature.
- Nonrecurring charges and monthly rates for the Remote Access feature are in addition to the nonrecurring charges and monthly rates for associated services, such as: individual regular exchange service and Foreign Exchange Service lines, 800 Service lines, and Centrex station lines.
- A dedicated Centrex station line, an individual regular exchange line, an 800 Service line, or Foreign Exchange line is required to enable the remote user to gain entry into a Remote Access feature. A Centrex station line provides access from the Remote Access feature to the Centrex system features and facilities.

Split Service - permits segregation of station lines into separate groups, utilizing an additional common block, thereby enabling each separate group to have a different set of common features.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.9

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Station Line Hunting - provides for an incoming call to a busy station line to be routed to another station line in the same hunt group.

Station Message Detail Recording (SMDR) - is an arrangement to provide a record, consisting of the calling number, the called number, date, time-of-day, duration of call and the type of facility used. The magnetic tape record will be provided to customers requiring message detail for cost allocation and telecommunications system management purposes. The detail will be provided on all facilities and routes selected by the customer for SMDR excluding intercom, local, interzone and directory assistance calls. Summaries, however, are provided on local, interzone and directory assistance calls.

SMDR is offered only where the Company's message billing process has been arranged to provide this optional feature.

SMDR is ordinarily provided on a per Centrex system basis. Customers may request individual billing for certain components of the Centrex system instead of for the total system and will be charged based on costs incurred in providing the SMDR under this arrangement.

The Magnetic tape density, number of tracks and record format will be that used by the program and data processing system in use by the accounting center furnishing the tape.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.9

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Station Message Detail Recording (SMDR) (Cont'd)

SMDR is not represented to be provision of call billing detail. Where Tie Line or Foreign Exchange lines are involved, all such call attempts, whether completed or not, will appear in the SMDR.

The customer may designate the group or groups of facilities on which SMDR is to be provided. The term facility group refers to either WATS lines, Foreign Exchange or Foreign Zone lines, Tie Lines, local exchange trunks for toll calls, CCSA access lines, or other compatible arrangements.

Station-to-Station Calling - allows the station user to directly dial other stations within the same customer group without the assistance of the attendant.

Supplemental Three-Digit Dialing - is available on a Centrex system arranged for 4- or 5-digit station-to-station dialing.

Three-Digit Dialing is provided as a means to reach an emergency station on the line on the same system, such as fire, police, etc.

Station user access to the three-digit service cannot be restricted when a station line terminating arrangement is provided. The trunk terminating arrangement, however, enables the customer to control station user access.

Switching Arrangements - are provided whereby the customer or authorized user may connect two or more separate private line channels so as to form through two-point connections over the channels.

For any single call, up to four two-point channels may be sequentially connected in tandem under control of the user. For more than four two-point connections, if made, the Company makes no representation as to the quality of transmission.

Switched Loop Operation - provides automatic switching of trunk calls requiring attendant assistance via idle connecting loops from the switching equipment to an associated idle attendant console.

Tandem Dial Switching Arrangement - provides for connection of incoming dial selective type private line channels to other private line channels and central office lines by dial operation from the calling station.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.10

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Tie Line Features

Electronic Tandem Switching (ETS) Type Tie Lines - provides termination for association with the ETS feature of Automatic Route Selection - Deluxe and Uniform Numbering/Automatic Alternate Routing.

Advanced Private Line Termination (APLT) - is used to connect tie lines, private line facilities and access lines from switched private line services to PBX dial switching equipment. It may also be used when compatible with and required for termination of facilities by Other Common Carriers (OCCs).

Trunk Answer From Any Station - provides for answering incoming Central Office trunk calls from any station line on the system when the attendant position is unattended.

800 Service Call Transfer - permits the termination of an 800 Service line in the Centrex customer's serving CO and in a station at the customer's premises. After the 800 Service line has been answered at the 800 Service terminated station, the station user may transfer the call to station lines within the customer's Centrex group.

Regulations

- This feature is provided on an 800 Service line only when the 800 Service facility terminates in the same serving office as the customer's Centrex system.
- This feature is provided only for the completion of 800 Service calls.
- This feature arrangement does not permit outgoing calls.
- A Centrex station equipped with the 800 Service Call Transfer feature may be equipped with the basic features normally provided with a Centrex station.
- The only additional Centrex features that may be provided with a station equipped with the 800 Service Call Transfer feature are: Call Pickup and Call Hold.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.10 and Original Sheet S-15.52.11.

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

2 Station (Cont'd)

Add-On - permits a station user to establish a three-party conference by adding one more station line within the same system to an existing incoming call without the assistance of the attendant.

Automatic Callback - permits a station user who attempts an intercommunication call to a busy station line to be automatically connected to that line when both called and calling lines are subsequently idle. Automatic Callback is only operational for intercommunication calls between station lines of the same system.

Call ForwardingBusy Line

- Individual - allows incoming calls from outside the system to a busy station line to be automatically routed to a preselected station line or to the attendant on the same system.
- All Calls - allows all incoming calls to a busy station line to be automatically routed to a preselected station line or to the attendant on the same system.

Don't Answer

- Individual - allows incoming calls from outside the system to a station line to be automatically routed to a preselected station line or to the attendant on the same system when a called station is not answered after a preset number of ringing cycles.
- All Calls - allows all incoming calls to a station line to be automatically routed to a preselected station line or to the attendant when a called station is not answered after a preset number of ringing cycles.

Variable

- permits a station user or attendant to establish automatic routing of all incoming calls to a station line to a preselected station line, to the attendant, or optionally to a line outside the system. When activated by the attendant, calls intended for station lines automatically route to another station line in the same system or to the attendant.

Limitations

- Call Forwarding-Busy Line is not provided on a station line equipped with Call Waiting.
- Station lines arranged for Call Forwarding - Variable must forward to another station line on the same system when dial "9" is an access code to system features, such as Automatic Route Selection.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.12

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

2 Station (Cont'd)

Call Forwarding Over Private Facilities - enables a station user to establish the automatic routing of incoming calls to a specific facility which is terminated in the same system. The term facility as used here applies to CCSA, ETS, WATS, FX, and dial type tie lines and the local and message toll network.

NOTE: Incoming local, message toll network, and INWATS calls to station lines arranged for Call Forwarding Over Private Facilities routing are subject to appropriate charges for such calls. A common recorded announcement is furnished to inform the caller that the call is being forwarded. In addition, calls forwarded to the local or MTS network and WATS are subject to the appropriate charges for such calls.

Where Call Forwarding Over Private Facilities optional service feature routes calls to a specific private facility which is denied access of activation by the Attendant Control of Facilities optional service arrangement, those calls will instead be routed to a common recorded announcement which refers the caller to the system's attendant.

Call Hold - allows a station user to "hold" any call in progress by flashing and then dialing a "hold" code, thus freeing the same line for the purpose of originating another call or returning to a previously held call. Call Hold shall only be provided to station lines arranged for Call Transfer - Individual.

Call Pickup

Individual - allows a station user to answer calls directed to another station line within the same pickup group by dialing a special code.

Directed Call Pickup

- Barge-In - permits a station user, by dialing a special code, to pick up an incoming call which has been answered or is ringing at another station line on the same system and equipped with Directed Call Pickup - Barge-in.
- Non-Barge-In - permits a station user, by dialing a preset code, to pick up an unanswered incoming call directed to another station line on the same system and equipped with Directed Call Pickup - Non-Barge-In.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.12 and Original Sheet S-15.52.13.

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

2. Station (Cont'd)

Call Waiting Services

Terminating

- Individual - provides a station user an audible tone to indicate an incoming call from outside the system.
- All Calls - provides a station user an audible tone to indicate an incoming call is waiting.

Originating - provides a station user with the ability to automatically direct an audible tone signal toward any other station line, if that station line is in use.

Dial - permits a station user of a station line equipped with Dial Call Waiting to originate, by dialing a code, an audible Call Waiting tone to a called busy station line on the same system.

Cancel Call Waiting - allows the user of a station with Call Waiting - Terminating to deactivate call waiting for the duration of one call.

Limitations - Call Waiting is not provided on a station line equipped with Call Forwarding - Busy Line. Cancel Call Waiting is available only in 1A ESS central offices.

Consultation Hold - permits a station user who is adding another station line to a call by means of the add-on conference feature to speak privately to the station user on the station line being added before the conference connection is completed.

Dial Station Transfer - All Calls - is provided in conjunction with Consultation Hold and Add-On. The Transfer - All Calls feature permits the station user to transfer an incoming or outgoing call (either an exchange service line or another station line) to another station on the same system without the assistance of the attendant or to the attendant on the same system.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.13 and Original Sheet S-15.52.14.

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

2. Station (Cont'd)

Dial Station Transfer - All Calls (Cont'd)

In No. 1 ESS central offices, an optional arrangement associated with Dial Station Transfer - All Calls permits a station user to transfer an established call, via Consultation Hold and Add-On, to another station or to the attendant on the same system or to add-on a call outside the system as long as one station user remains on the call. Quality of transmission is not assured when a call outside the system is added on.

When this feature is provided with Centrex V systems, it must be applied to all stations in the Common Block.

Dial Transfer-Station (Incoming) - permits a station user to transfer incoming central office calls to another station line within the same system without the assistance of the attendant.

Direct Connect - allows a preassigned number to be dialed automatically when dial tone is detected on the Centrex station line.

Calls may be directed to other stations on the same Centrex system, to other telephones via exchange trunks, CCSA trunks, tie lines, or to other miscellaneous trunks such as loudspeaker paging.

Distinctive Ringing - is furnished in three different classes to indicate the source of calls to idle station lines. These three classes identify:

<u>Class</u>	<u>Call Source</u>
A	- Intercommunication
B	- Direct inward dialed local and toll - Attendant Completed - CCSA access line - Tie line
C	- 51A console night service arrangement.

NOTE: Class A ringing is not furnished separately and is included at no additional charge to station line stations arranged for Class B ringing. When a customer's system is equipped with a 51A console and is arranged for Class B ringing, Class C ringing will be provided to identify night service arrangement extended calls to station line stations at no additional charge.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.14

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

2 Station (Cont'd)

Speed Calling

Fixed List - changes in the numbers listed require Company work activity.

- 6 code - permits each station line having access to place calls to a repertory of six telephone numbers by dialing a code.
- 30 Code - permits each station line having access to place calls to a repertory of thirty telephone numbers by dialing a code.

Changeable List - changes in the numbers listed can be effected from the initial line only by the customer dialing a preset code.

- 6 Code - permits each station line having access to place calls to a repertory of six telephone numbers by dialing a code.
- 30 Code - permits each station line having access to place calls to a repertory of thirty telephone numbers by dialing a code.

Limitations

- A 6 code and 30 Code List are not provided on the same station line when such line is in a multiline hunt group.
- Three digit access codes are offered only on the Fixed List since changes require Company work activity.
- Telephone numbers, including routing codes, are limited to a maximum of sixteen digits.

Station Dial Conference - allows a station user to establish a conference connection with a maximum of six conferees (including the conference controller) without the aid of the attendant.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.15

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS

3. Attendant Console

Attendant Access Line - provides a circuit between the Central Office serving the Centrex system and the attendant position on the customer's premises. These lines are provided for the completion of calls directed to the attendant.

Attendant-Call Transfer (Incoming) - permits the transferring of incoming calls from one station line to another by the attendant.

Attendant Camp On - allows an incoming call, which the attendant attempts to complete to a busy station line, to be held waiting and automatically connected when the called station line becomes available. An indication of camp-on (tone) will be given to the busy station line each time the attendant attempts a completion. Station lines equipped with Call waiting cannot be camped-on.

Attendant Conference - allows the attendant to establish a multiparty conference connection of up to five parties, not including the attendant.

Attendant Control of Facilities (ACOF) - allows the attendant to restrict dial access of station lines to Foreign Exchange, WATS, CCSA, and Tie Line Facilities associated with the system. In addition, other special services such as paging or dictation trunk facilities may be restricted. Control of those facilities by the attendant is accomplished by means of special control keys. The number of facility groups that can be associated with one control key will vary depending upon the arrangement provided.

When ACOF is activated, calls to those facilities are routed either to the attendant for completion or to a common Centrex announcement. Calls in progress using the restricted facility are not affected by ACOF activation or deactivation.

Access to facilities via Speed Calling lists is not affected by ACOF.

Attendant Console - provides a means of originating outgoing calls, completing incoming calls to station lines associated with the system and transferring Central Office calls from station line to station line.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.16

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

3. Attendant Console (Cont'd)

Busy Verification by Attendant - allows the Centrex attendant to establish a connection to an apparently busy trunk (i.e., Foreign Exchange, Tie and CCSA) or station line to determine if the trunk or line is in working order. When the attendant is connected to the busy trunk or station line, periodic bursts of tone are applied to alert the talking parties of the attendant's presence.

Busy Verification by Attendant cannot be provided on WATS or colocated CCSA facilities. In addition, the customer's attendant position must be a 51A type data link console.

Calls Waiting Indication - provides a visual signal on each attendant console to indicate when calls are waiting to be served.

Digit Absorbing Attendant Trunks - permit 7 or 10 digit dialing to the attendant from CCSA Access lines.

Hold - enables the attendant to hold a call by depressing the console's HOLD button. The associated line loop lamp indicates the hold state.

Indication of Camp-On - provides a distinctive tone to the busy station line when there is a camped-on call waiting.

Night Service Arrangements

- Fixed - permits the forwarding of an incoming call to a predesignated station at night or other times when attendant positions are unattended or inoperative. This feature is activated or deactivated by a button on the console.
- Flexible - uses the Centrex Call Forwarding - Variable feature to activate or cancel night service.
- Trunk Answer From Any Station - an incoming night call is indicated by the ringing of a night bell. Calls may be answered at any station by dialing an answer access code. This feature may be provided independently or in conjunction with Fixed night service.
- Flexible night service is not compatible with Fixed night service nor can it be used with certain types of Multiple Position Hunt groups.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.16 and Original Sheet S-15.52.17.

CENTREX V (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

3. Attendant Console (Cont'd)

Queuing - permits incoming calls to be held awaiting the availability of an idle line and to be unloaded from the queue on a first-in, first-out basis.

Supplemental Attendant Trunks - are trunks to the attendant position from the switching equipment in addition to those provided as a standard feature of the Centrex system. They are available where facility conditions permit with Centrex systems. A dialing code other than "O" is assigned, which reduces the station capacity of the system.

Through Dialing - Attendant Service - on outgoing calls handled at the attendant console, permits station users to complete dialing after the attendant selects the outgoing trunk facility.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.52.18

CENTREX V (Cont'd)**C. SYSTEM CONFIGURATIONS**

1. Centrex V Systems are provided in two configurations: Standard and Custom.

a. Standard System Configuration

- (1) The Standard System configuration is a predesigned arrangement that includes a line size of 20 to 149 main stations, three-digit intercom dialing, standard access codes and the basic features described in (2) following.
- (2) The following Standard System Configuration features are provided with standard access only.
 - Automatic Call Back
 - Call Hold
 - Call Pickup
 - individual
 - Directed
 - Call Forwarding
 - Variable
 - Call Waiting
 - Dial
 - Directed Call Pickup
 - Barge-in
 - Non Barge-in
 - Speed Calling - Changeable List
 - 6 Code
- (3) Subsequent to the initial installation, the other optional features listed in D. following are available for Standard System Configurations at rates and charges provided herein.
- (4) Where facilities permit, customers may retain two of their presently listed directory numbers.

b. Customer System Configuration

- (1) The Customer System Configuration is programmed and installed to meet individual customer requirements that deviate from the Standard System Configuration. This system configuration includes a line size of 20 or more main stations, 2-, 3-, 4-, or 5-digits intercom dialing, and the basic features described in 2. following.
- (2) Centrex optional features in D. following may be provided with the Customer System configuration.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.53

CENTREX V (Cont'd)

C. SYSTEM CONFIGURATIONS (Cont'd)

2. Centrex V Systems consist of these basic features:

- Call Forwarding
- Busy Line
- Don't Answer
- Variable
- Call Hold
- Call Pickup
- Call Transfer Attendant or,
Dial Station Transfer - All Calls
with Add-On-Conference and Consultation Hold
- Call Waiting
- Originating
- Terminating
- Dial Call Waiting
- Directed Call Pickup
- Barge-in
- Non Barge-in
- Direct Inward Dialing (DID)
- Direct Outward Dialing (DOD)
- Feature Access (Dial Code Access)
- Identified Outward Dialing (IOD)
- Outgoing Call Restriction on Business Lines
- Speed Calling - Changeable
- 6 Code /a/
- Station-to-Station Calling
- Station Line Hunting
- TOUCH-TONE Calling
- Trunk Answer Any Station

/a/ Included as a basic station line feature if the serving central office is equipped with No. 1A ESS.
This is an optional feature in No. 1 ESS central offices.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.53.1

CENTREX V (Cont'd)

D. RATES AND CHARGES

1. System and Station Lines

<u>Service Establishment Charge</u>	<u>USOC</u>	<u>Nonrecurring Charge</u>		
- Standard System Configuration	C3CSS	\$800.00		
- Custom System Configuration (These charges apply only to customers currently not subscribing to centrex service.)	C3CCS	3,000.00		
<u>Conversion USOC</u>				
- Centrex I, II, or combined to Centrex V		\$1,150.00		
- Centrex III and IV (150 stations or over) to Centrex V		545.00		
- ETSP and Centrex IV (20 to 149 stations) to Centrex V	CPVBL	125.00		
- Per line charge if required		7.00/a		
<u>Optional Payment Periods</u>				
<u>USOC</u>	<u>Nonrecurring Charges</u>	36 <u>Mos.</u>	60 <u>Mos.</u>	84 <u>Mos.</u>
<u>Common Equipment, per system</u>	-	\$30.00	\$25.00	\$20.00
<u>Business Service</u>				
Station Lines, Measured Rate Service, each	/b/			
- First 49 Lines (minimum of 20)		2.50	2.50	2.50
- Exchange Access		12.00	10.50	9.50
- Intercommunication				
- Net 50 Lines		1.00	1.00	1.00
- Exchange Access		13.00	11.50	10.50
- Intercommunication				
- Next 400 Lines		0.85	0.85	0.85
- Exchange Access		12.65	11.15	10.15
- Intercommunication				

/a/ Applies when any or all of the basic Centrex V features are added to a station line at the time of conversion.

/b/ Line Connection charges specified in Tariff M.P.S.C. No. 20R, Part 3, Section 1.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

1. System and Station Lines (Cont'd)

		<u>Optional Payment Periods</u>		
	<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>36 Mos.</u>	<u>60 Mos.</u>
<u>Business Service (Cont'd)</u>				
Station Lines,				
Measured Rate Service, each		/a/		
- Next 500 Lines				
- Exchange Access			\$0.85	\$0.85
- Intercommunication			12.15	10.65
- All over 999 Lines			0.85	0.85
- Exchange Access			11.65	10.15
- Intercommunication				9.45
Nonrecurring Charges, Per Loop/a/b/				
- Under 3 cable miles	LOP		\$60.00	
- Over 3 cable miles,				
- Special construction charges specified Part 2, Section 5 of the tariff apply.				

/a/ Line Connection charges specified in Tariff M.P.S.C. No. 20R, Part 3, Section 1, apply.

/b/ Applies to each loop which must be provided via new entrance capacity. The minimum charge is \$60.00. (Entrance capacity is defined as the voice frequency channel equivalent of new facilities required to extend exchange facilities from the adjacent OSP network to the customer's point of entrance termination.)

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

2. Additions, Moves and Changes

a. For an in-service move of attendant consoles in the same building the charges will be based on cost.

b. System Additions or Changes

	<u>USOC</u>	<u>Nonrecurring Charge</u>
- Expand station range subsequent to initial cutover, each 100 station lines or less	SG9SX	\$100.00
- Add an access code, each		115.00
- Change an access code on an existing trunk group, each		70.00
- Add or delete Call Forwarding Outside; Call Forwarding -Don't Answer, All Calls; Call Forwarding Busy Line, All Calls- or Call Waiting, All Calls		70.00
- Rearrange Centrex Access Treatment (CAT) Codes, each		40.00

c. Station Line Additions or Changes

- or one or more of the following additions or changes made on a station line at the same time	<u>SG9LC</u>	7.00
- Change station line number		
- Change class of service or Line Class Code (LCC) on a station line		
- change Centrex Access Treatment (CAT) code		
- Remove priority queuing from a line		
- Change, Add or remove a telephone number on a fixed Speed Calling list		
- Change a number to which calls are forwarded		
- Add or remove a line from a call pick-up group		
- Add or remove hunting from a station line		
- Rearrange or delete a station line within a Multiline Hunt Group (MLHG)		
- Add or remove TOUCH-TONE Calling		
- Change a Centrex group number on a station line		
- Change a Dormitory Service station line to a business station line or vice versa		
- Add or delete a basic feature to or from a Centrex V station line.		

d. For changing the number of digits dialed for station-to-station calling on a system from a 3 - or 4-digit to a 5-digit dialing system or from a 3-digit to a 4-digit dialing system.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.1

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features

			USOC	Non-recurring Charge	Optional Payment Periods		
					36 Months	60 Months	84 Months
a. Attendant Consoles							
(1) 51A Console							
(a)	Type 27A (small), each		ED7++	\$ 2,100.00	\$220.00	\$220.00	\$220.00
(b)	Type 47A (large), each		ED4++	2,340.00	275.00	275.00	275.00
(c)	Central Office Common Equipment						
	- Type 27A console, each		EDD	335.00	10.00	10.00	10.00
	- Type 47A console, each		EED	335.00	10.00	10.00	10.00
(d)	Data Link Common Equipment						
	- Customer Premises Unit (required for each group of four consoles), each		ED5	10,960.00	570.00	570.00	570.00
	- Additional Common Equipment- Customer Premises Unit (required for third and fourth console in each group of four consoles) each		ED6	1,045.00	145.00	145.00	145.00
	- Serving Central Office Unit, (required for each group of four consoles), each ^{1/}		EDK	15.00	220.00	220.00	220.00 (C)

/2/

(C)
(C)

/1/ One required per Common Equipment - Customer Premises as specified for USOC EDS above /2/ and, in addition, rates and charges apply as provided via unregulated Dedicated Communications Service, for a 4 wire voice grade Direct Analog Service between the serving wire center and the customer's premises per each group of four consoles.

/2/ Material now appears on Original Sheet 146.1 in this Section.

CENTREX V (cont'd)

/2/

D. RATES AND CHARGES (cont'd)

3. Optional Features (cont'd)

USOC	Non-recurring Charge	Optional Payment Periods			
		36 Months	60 Months	84 Months	
a. Attendant Consoles (cont'd)					
(1) 51A Console (cont'd)					
(e) Attendant Loop Circuit Termination - Serving Central Office (maximum of six per console), each	EDB	\$30.00	\$20.00	\$20.00	
(f) Attendant Trunk Circuit Termination - Serving Central Office (one required per console), each	EDF	15.00	63.00	63.00	
(g) Attendant Access Line (one per console), each ^{/1/}	EDA	Rates and charges for a Centrex Station Line apply.			

(C)/2/

/1/ In addition, rates and charges as provided via unregulated Dedicated Communications Service, (C)/2/
apply for a 2 wire voice grade Direct Analog Service. (C)
/2/ Material formerly appeared on Original Sheet 146 in this Section. /2/

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

a. Attendant Consoles

(2) 50B Console or Similar Equipment (CO portion of the service)

USOC	Non-recurring Charge	Optional Payment Periods		
		36 Months	60 Months	84 Months

Rate Schedule

- Attendant Access Line, each (maximum of 16 per console)	EAR	/1/	/1/	/1/	/1/	(C)
- Attendant Conference	EMC	\$285.00	\$80.00	\$80.00	\$80.00	
- Trunk Group Busy Indication (maximum of 4 Group Busy Indicators per system)						
- Common Equipment, per trunk group ^{/2/}	EAX	28.00	16.00	16.00	16.00	(C)
- Fixed Night Service, per system ^{/2/}	CXX	60.00	4.00	4.00	4.00	(C)
- Call Waiting Indication ^{/2/}	SUG	28.00	16.00	16.00	16.00	(C)

/1/ Rates and charges for Centrex station lines apply for the associated Centrex system. For TOUCH-TONE Calling, rates and charges specified elsewhere in the tariff apply for Centrex station lines equipped with this feature. Rates are applicable to the System's minimum charge. (C)

/2/ In addition, requires a 2-wire voice grade Direct Analog Service between the serving wire center and the customer's premises for each Trunk Group equipped provided via unregulated Dedicated Communications Service. (C)

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

a. Attendant Consoles (Cont'd)

(2) 50B Console or Similar Equipment (CO portion of the service) (Cont'd)

<u>Moves, Changes or Rearrangements</u>	<u>Nonrecurring Charge</u>
- Change or rearrangement of the Attendant Conference feature	\$65.00
- Change or rearrangement of the Fixed Night Service feature	45.00
- Change or rearrangement of the Trunk Group Busy Indication feature	28.00
- Change of Call Waiting Indication	28.00
- Other Changes or Rearrangements	

For other changes or rearrangements, the charges will be determined separately for each case in accordance with the provisions for establishing charges for special equipment and arrangements specified elsewhere in this Guidebook. (C)

CENTREX V (Cont'd)**D. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****b. Automatic Route Selection - Basic (ARS-B)**Nonrecurring
Charge

Service Establishment Charge - For the establishment of Selected Customer Control of Facilities. \$237.32

The established nonrecurring and monthly charges for the foreign exchange (zone) trunks, CCSA off- network access lines, WATS lines, tie lines, or compatible OCC access lines are applicable in addition to the charges for Automatic Route Selection. The Tie Line feature charge, as shown elsewhere in this Guidebook, is applicable for terminating tie lines or OCC (C) access lines in the Centrex system.

<u>Automatic Route Selection - Basic /a/</u>	<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>Optional Payment Period</u>		
			<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>
<u>Common Equipment</u>	ART	\$157.34	\$2.77	\$32.77	\$32.77
<u>Each facility terminated</u>	AR5	-	4.92	4.92	4.92
<u>Route Selection Patterns</u>					
- With three digit translation for Numbering Plan area (NPA) Codes or Home NPA Central Office Codes	AR9	65.56	3.93	3.93	3.93
	ARG	65.56	13.10	13.10	13.10

/a/ For Automatic Route Selection - Deluxe, see Electronic Tandem Switching (ETS) contained elsewhere in this Guidebook.

/b/ When station lines equipped with Toll Diversion have access to Automatic Route Selection-Basic, the monthly rate for either USOC ARG or ARK is applicable.

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

b. Automatic Route Selection - Basic (ARS-B) (cont'd)

USOC	Non-recurring Charge	Optional Payment Periods		
		36 Months	60 Months	84 Months
Route Selection Patterns				
- With six digit translation for Numbering Plan Area (NPA) codes plus Central office codes (NNX)	ARH	\$196.68 ^{/3/}	\$15.73 ^{/3/}	\$15.73 ^{/3/}
- With overflow to local exchange trunks, each pattern ^{/1/}	ARK	196.68 ^{/3/}	24.90 ^{/3/}	24.90 ^{/3/}
- With overflow to a tone, each pattern	SFY	66.94	19.47	19.47

Selected Customer Control of Facilities

- Common equipment, per system
- Each facility group to which access is denied^{/4/}

SFF	30.43	6.69	6.69	6.69
-----	-------	------	------	------

(C)

/1/ When station lines equipped with Toll Diversion have access to Automatic Route Selection-Basic, (C) the monthly rate for either USOC ARG or ARK is applicable.

/2/ Rate includes one six digit translation. If additional six digit translations are required for a pattern, (C) the charge applies for each additional translation.

/3/ In addition, apply rates and charges as provided via unregulated Dedicated Communications Service, for a 2 wire voice grade Direct Analog Service between the serving wire center and the customer premises. (C)

CENTREX V (Cont'd)**D. RATES AND CHARGES (Cont'd)****3. Optional Features (Cont'd)****b. Automatic Route Selection - Basic (ARS-B) (Cont'd)**Additions, Changes and Rearrangements

- For the addition of patterns the preceding nonrecurring charges are applicable.
- For the addition of one or more facilities to an existing route at the time each facility is established, no additional charge is applicable.
- For additions and changes of NPA or Central Office codes, a nonrecurring charge of \$65.56 is applicable for one or more additions and changes made on the same occasion. The customer is responsible for notifying the company when NPA or Central Office codes are added or changed.
- For addition, deletion or change of routes in existing patterns, a nonrecurring charge of \$65.56 per pattern is applicable.

C. Hospital Slumber Service

	USOC	Nonrecurring Charge /a/	Optional Payment Period		
			36 Mos. /a/	60 Mos. /a/	84 Mos. /a/
(1) Make-Busy Key, per Slumber Group	P2Y				
(2) Each station line in a Slumber Group	FRA	\$19.66/b/	\$0.18	\$0.18	\$ 0.18
(3) Attendant position intercept					
- Initial intercept line per Slumber Group	FRD	20.98	11.54	11.54	11.54
- Each additional intercept line per Slumber Group	FRE	16.39	8.26	8.26	8.26
(4) Station line intercept					
- Basic charge per Slumber Group	FRG	16.39	3.29	3.29	3.29
- Each intercept line per Slumber Group - station line charges as specified for the type Centrex system involved.					

/a/ Apply charges for Make Busy Feature as specified in Part 8, Section 8, of this Guidebook. (C)

/b/ Covers one or more station lines equipped at the same time.

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)
 - c. Hospital Slumber Service (cont'd)

Moves and Changes

- (1) To move a Make-Busy Key or an intercept line (not including the associated equipment), the nonrecurring charge applies.
- (2) To change from attendant position intercept to station line intercept, the nonrecurring charges under c.(4) apply.
- (3) To change from station line intercept to attendant position intercept, the nonrecurring charges under c.(3) apply.
- (4) To remove or change a station line to another Slumber Group, the nonrecurring charge under c.(2) applies, for one or more station lines removed or changed at the same time.

d. Through Dialing - Attendant Service

- To establish Through Dialing Attendant Service on a new or existing system, an Installation Charge of \$32.77 is applicable. (USOC - THD)
- To deactivate the feature on an existing system, the preceding Installation Charge is applicable.

e. Main-Satellite Service

USOC	Non-recurring Charge	Optional Payment Periods		
		36 Months	60 Months	84 Months
Main-Satellite Service Tie Lines per termination	Y21	\$32.77 ^{1/}	\$32.77	\$32.77

Channels

- Channel rates and charges as provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers, are applicable in addition to the preceding charges.

Additions

- For the addition or change of Dial Access Codes, the nonrecurring charge specified elsewhere in this Guidebook for Centrex system additions or changes applies.

(C)

^{1/} Not applicable when installed at same time as the Centrex system.

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

f. Supplemental Three-Digit Dialing Service (Cont'd)

			Optional Payment Periods		
	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>
- Station Line Termination - Each 10-number group	HDG	\$16.39	\$14.62	\$14.62	\$14.62
- Rates and charges for station lines are in addition to the rates and charges preceding.					
- Trunk Terminations - Per trunk group	T3NTK T3NTG	100.00 11.00	- 20.00	- 20.00	- 20.00
g. Terminating Facilities for CCSA Access Lines					
- Terminating Facilities per CCSA Access Line	ALC	32.77	4.06	4.06	4.06
h. Outgoing Trunk Queuing - WATS Lines					
Service Establishment Charge per System		547.67			
<u>Common Equipment. per OTQSystem</u>	OTQ	638.94	87.63	87.63	87.63
- Queues, each	OTT	365.11	8.52	8.52	8.52
- Queue Slots, each	OTU	-	43.81	43.81	43.81

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.7 and Original Sheet S-15.54.8.

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

h. Outgoing Trunk Queuing - WATS Lines (cont'd)

USOC	Non-recurring Charge	Optional Payment Periods			
		36 Months	60 Months	84 Months	
Attendant Key Control -					
Interflow					
- Inhibit Inflow, each trunk group	OTA	\$231.24	\$ 2.13	\$ 2.13	
- Inhibit Outflow, each trunk group	OTB	231.24 /1/	2.13 /1/	2.13 /1/	
- Control Keys, each					
Music-on-Queue, per System Common Equipment					
	OTD	176.47 ^{/2/}	170.39 ^{/2/}	170.39 ^{/2/}	
Priority Queuing, per station line equipped					
- Additional Dial Access Codes		5.48 /3/	/3/	/3/	
Recorded Announcement, per system					
	OTC	109.53	34.07	34.07	

NOTE: The text and announcement will be provided by the Company.

- /1/ Requires a customer-provided control key and a 2 wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service.
- /2/ The nonrecurring charge and monthly rates for one 2 wire voice grade Direct Analog Service to the customer's music sources apply as provided via unregulated Dedicated Communications Service.
- /3/ The nonrecurring charge specified elsewhere in this Guidebook for Centrex system additions or changes applies. (C)

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

h. Outgoing Trunk Queuing - WATS Lines (Cont'd)

<u>Subsequent Additions, Changes and Rearrangements</u>	<u>USOC</u>	<u>Nonrecurring Charge</u>
- Change or rearrangement of Common Equipment, such as, change in access codes of QTQ, change in the Centrex system codes that also require changes in the OTQ, and change in dialing pattern , each occasion.	NRCQC	\$206.90
- Reduction in the number of Queue Slots requiring re-arrangement of remaining Queue Slots or subsequent additions, one or more at the same time	NRCQS	73.02
- Change in Queue threshold time limit, increase or decrease, each queue.	NRCQT	73.02
- Change of the inhibit inflow or inhibit outflow arrangement, or reduction in the number of inhibit inflow or outflow features with a rearrangement of the remaining inhibit inflow/outflow arrangements, each inflow or outflow rearranged	NRCQH	73.02
- Change in overflow arrangement, each queue	NRCQ0	103.44
- Change from Recorded Announcement or Music-on-Queue to Silence on Queue		109.53
- Change from Silence on Queue or Music-on-Queue to Recorded Announcement, each		/a/
- Change from Recorded Announcement or Silence-on-Queue to Music-on-Queue, each		/a/
- Addition of Priority Queuing, per station line		/b/
- Removal of Priority Queuing from a station line remaining in service		/b/

/a The Nonrecurring Charge as specified preceding applies.

/b/ The Nonrecurring Charge specified elsewhere in the tariff for Centrex station line additions or changes applies.

Material originally appeared in INFORMATION LINK No. 2, and Original Sheet S-15.54.8 and Original Sheet S-15.54.9

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features

A Service Establishment Charge applies for the following services:

<u>Common Equipment</u>	<u>Nonrecurring Charge</u>	<u>Optional Payment Periods</u>				
		<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>
- Automatic Callback				\$535.50		
- Call Forwarding Over Private Facilities				474.64		
- Distinctive Ringing				133.87		
<u>Attendant Camp-on</u> , per Console						
- One or more Consoles	C58		\$95.84	\$60.86	\$60.86	60.86
<u>Automatic Callback</u>						
- Common Equipment, per system	ACY	66.94		48.69	48.69	48.69
- Individual each/c/	SAK	7.00/a/		1.03	1.03	1.03
- Universal, each/b/	SBK	7.00/a/		0.10	0.10	0.10
<u>Call Forwarding Over Private Facilities</u>						
- Common Equipment, per system	EAY	66.94		127.79	127.79	127.79
- Station line equipped, each	EAP	2.62		5.84	5.84	5.84
<u>Cancel Call Waiting</u>						
- Common Equipment, per system/d/		600.00		-	-	-

- /a/ Not applicable if installed at the same time as the initial installation of the station line.
- /b/ Applies when system is universally equipped with this feature and the central office is No. IA ESS.
- /c/ Applies when individual lines are selected to be equipped with this feature.
- /d/ On systems equipped with the Split Service Feature Centrex, the system charge applies per Common Block.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.10

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

	USOC	Nonrecurring Charges	Optional Payment Periods		
			36 Mos.	60 Mos.	84 Mos.
<u>Distinctive Ringing</u>					
- Common Equipment, per system	DRR	\$66.94	\$43.81	\$43.81	\$43.81
- Class B ringing, each station line equipped	BRT	2.62	1.64	1.64	1.64
NOTE: Class B ringing is furnished only on a per station line basis. In addition, Class B ringing applies to all call sources except intra Centrex. A customer cannot elect to have only selected call sources identified with Class B ringing.					
<u>Speed Calling</u>					
<u>Per System /a/ Fixed Lists</u>	ESHPS	95.84/b/	-	-	-
<u>6 Code Lists, each</u>	ESHT6	16.39	1.21	1.21	1.21
- Access to each list	EST1L	7.00/c/	0.30	0.30	0.30
- Initial line	ESTAL	7.00/c/	0.30	0.30	0.30
<u>30 Code Lists, each</u>	ESHT3	31.95	6.09	6.09	6.09
- Access to each list	ESF1L	7.00/c/	0.30	0.30	0.30
- Initial line	ESFAL	7.00/c/	0.30	0.30	0.30

/a/ On systems equipped with the Split Service Feature Centrex, the System rates and charges apply per Common Block.

/b/ Not applicable when installed at the same time as the Centrex system is established.

/c/ Not applicable if installed at the same time as the initial installation of the station line. Only one NRC per line applies for one or more features added at the same time or on the same order.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.11

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

Speed Calling (Cont'd)

	<u>USOC</u>	Nonrecurring Charges	Optional Payment Periods		
			36 Mos.	60 Mos.	84 Mos.
<u>Changeable Lists</u>					
<u>6 Code Lists</u> , each/d/ - Access to each list - Initial line - Each Additional line	ESHC6	\$16.39/c/	\$1.21	\$1.21	\$1.21
	EST1L	7.00/c/	0.30	0.30	0.30
	ESTAL	7.00/c/	0.30	0.30	0.30
<u>30 Code Lists</u> , each - Access to each list - Initial line - Each additional line	ESHC3	25.56	6.09	6.09	6.09
	ESF1L	7.00/c/	0.30	0.30	0.30
	ESFAL	7.00/c/	0.30	0.30	0.30
<u>Code Lists, Universal/e/</u> - Per line	ESF	7.00/c/	0.50	0.50	0.50
<u>Split Service</u>					
- Initial Common Block, per system	EBS	\$587.83	\$60.86	\$60.86	\$60.86
- Additional Common Blocks, each			-	-	-
- Installed at same time as the initial Common Block			-	-	-
- Installed subsequent to the initial Common Block		894.52	-	-	-

Additions and Changes

- For a change of Speed Calling from Fixed List to Changeable List, or 6 Code to 30 Code or vice versa, the nonrecurring charge for the replacing list is applicable.

/d/ Included as a basic station line feature if the serving Central Office is equipped with No. 1A ESS.

/e/ Applies when system is universally equipped with this feature and the Central Office is No. 1A ESS.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.11
and Original Sheet S-15.54.12

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

i. Optional Calling Features (Cont'd)

Additions and Changes (Cont'd)

- For the addition of one or more Optional Calling Features to a system apply the nonrecurring charge to establish any applicable system feature in addition to the nonrecurring charge per line equipped.
- For other optional feature additions or changes, the nonrecurring charge specified elsewhere in this tariff for additions or changes to a Centrex station line applies.

j. Station Message Detail Recording

Service Establishment Charge - a nonrecurring charge of \$608.51 is applicable only at the time the system is arranged to provide Message Detail Recording on either the initial Tie Line, the initial other compatible access line, or the initial Foreign Exchange or Zone

	USOC	Nonrecurring Charges	Optional Payment Periods				
			36 Mos.	60 Mos.	84 Mos.		
<u>SMDR</u>							
<u>Common Equipment</u>							
- Per system	CMM	\$1,947.25	\$48.69	\$48.69	\$48.69		
- Per facility group	CMW	91.28	-	-	-		
<u>Station Message Detail Recording</u>							
-Per message	\$0.018	-	-	-	-		
<u>Line Equipment</u>							
- Per tie line	CMT	-	3.04	3.04	3.04		
- Per Foreign Exchange line	CMQ	-	3.04	3.04	3.04		
- Per other compatible access line	CMZ	-	3.04	3.04	3.04		

Changes and Rearrangements

For a change or rearrangement, such as in a facility group or access group, the nonrecurring charge for the facility group is applicable.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.12 and Original Sheet S-15.54.13

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS)

(1) Nonrecurring Charges

Service Establishment Charges

This group of charges applies to the Central Office portion of the service.

<u>Common Equipment</u>	<u>Nonrecurring Charge</u>
Automatic Route Selection - Deluxe	\$3,328.58
Authorization Codes	6,085.16
Customer Administration and Control	584.18
Deluxe Queuing	1,752.53
Facilities Administration and Control	2,799.17
Traffic Data to Customer (Pollable)	9,626.73
Station Message Detail Recording	3,547.65
Uniform Numbering/Automatic Alternate Routing	7,667.30

Installation Charge

This charge applies to the Central Office portion of the service. Where unusual conditions require installation costs beyond the scope of this service offering, special charges based upon cost as specified elsewhere in the tariff may apply.

(2) Termination Charges

Termination charges are equal to 50% of the monthly charge for the unexpired portion of the payment period, based on the rates in effect at the time service is established for the portion or portions of the ETS common equipment discontinued.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.14

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(3) Central Office Portion of the Service (No. 1A ESS)

	<u>USOC</u>	<u>Nonrecurring Charges</u>	Optional Payment Periods		
			<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>
<u>Automatic Route Selection - Deluxe</u>					
Common equipment, each access code	ASH/5	\$1,691.00	\$44.00	\$41.00	\$40.00
<u>Route selection patterns</u>					
-Each facility terminated in patterns	ASJ/5	-	4.30	4.00	3.95
-By NPA code only, each pattern	ASK/5	51.00	5.00	4.70	4.60
-By NPA and Central Office Codes, each pattern (Provides for routing to one or more Central Office Codes within the NPA)	ASO/5	181.00	6.00	5.60	5.50
<u>Arrangements for additional Pattern Groups for Time of Day routing, each</u>					
NOTE: Rate includes one six digit translation. If additional translations are required for a pattern, the charge applies for each additional translation.	ASZ/5	538.00	3.40	3.15	3.10
<u>Customer Administration and Control</u>					
Common equipment, each/a/	CAX/5	1,815.00	670.00	625.00	615.00

/a/ One central office common equipment is required in connection with the furnishing of either Facilities Administration and Control or Traffic Data to Customer.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.15

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

k. Electronic Tandem Switching (ETS) (cont'd)

(3) Central Office Portion of the Service (No. 1A ESS) (cont'd)

Customer Administration and Control (cont'd)

	USOC	Non-recurring Charge	Optional 36 Months	Payment Periods 60 Months	84 Months
Deluxe Queuing					
Common equipment , per system	QDC/5	\$572.00	\$ 18.00	\$ 17.00	\$ 16.50
Queue , each facility group equipped	QDF/5	140.00	0.35	0.30	0.28
Queue slots^{/1/}					
- Off-hook queue (OHQ) slot with: ^{/2/}					(C)
- Recorded announcement each ^{/3/}	QDA/5	-	33.00	31.00	30.30
- Music, each ^{/4/}	QDM/5	-	31.00	29.00	28.00
- Ring-back queue (RBQ) slots, each	QDR/5	-	18.00	17.00	16.60
Recorded Announcement Common Equipment , each	QDE/5	69.00	105.00	98.00	96.00
Music on Queue	QDD/5	69.00	137.00	128.00	126.00

NOTE: A connecting channel is required between the serving central office common equipment and the music source (customer-provided) on the customer premises. In addition, apply rates and charges provided via unregulated Dedicated Communications Service for a 2 wire voice grade Direct Analog Service.

(C)

/1/ Station lines can be provided with either OHQ or RBQ. All such stations must be equipped with the same type of queuing.

(C)

/2/ OHQ must be equipped with either Recorded Announcement or Music on Queue.

/3/ The charges apply in addition to rates and charges for recorded announcement equipment.

(C)

/4/ The charges apply in addition to rates and charges for Music on Queue. The music for Music on Queue must be provided by the customer.

(C)

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(3) Central Office Portion of the Service (No. 1A ESS) (Cont'd)

		<u>USOC</u>	<u>Nonrecurring Charges</u>	Optional Payment Periods		
				36 Mos.	60 Mos.	84 Mos.
<u>Facilities Administration And Control</u> (Requires Customer Administration and Control)						
- Common equipment, each		FA2/5	\$352.00	\$114.00	\$106.00	\$105.00
<u>Facilities Restriction Levels (FRL)</u>						
<u>Centrex station lines or incoming or two-way tie line terminations, each /a/</u>		FRK00/5 thru FRK07/5	7.00	0.10	0.10	0.10
<u>Authorization codes</u>						
- Common equipment		AUA/5	805.00	53.50	50.00	49.00
- Authorization Codes, for each 100 codes or each fraction thereof		AUS/5	40.00	0.65	0.60	0.55
- Each facility terminated in ARS-D or UN/AAR patterns		AUF/5	-	4.50	4.15	4.10

/a/ All station lines and incoming tie line terminations with access to ARS-D must be equipped with FRL.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.17

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

K. Electronic Tandem Switching (ETS) (Cont'd)

(3) Central Office Portion of the Service (No. 1A ESS) (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charges</u>	Optional Payment Periods		
			<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>
<u>Station Message Detail Recording - (SMDR-P) /a/</u>					
- Common Equipment, per system NOTE: Rate includes the recording of Account Codes and Authorization Codes when these optional features are provided	MDR/5	\$660.00	\$716.00	\$668.00	\$657.00
- Each facility terminated in ARS-D for UN/AAR patterns when the system is equipped for originating records /b/	MDX/5	10.00	9.00	8.50	8.30
- Each tie line facility equipped for terminating records	MDT/5	10.00	0.85	0.80	0.75
<u>Traffic Data To Customer (Pollable)</u> (Requires Customer Administration and Control)					
- Common equipment	PTA/5	375.00	49.00	45.00	44.50
- Each Queue equipped	PTU/5	80.00	3.00	2.85	2.80
- Each facility group equipped	PTY/5	80.00	8.00	7.50	7.20
<u>Uniform Numbering/Automatic Alternate Routing (UN/AAR)</u>					
<u>Common equipment</u>	UNR/5	2,543.00	84.00	78.00	77.00

/a/ Processing of message detail information (SMDR) by the Company accounting center is not provided with this arrangement.

/b/ Applies to each facility terminated in ARS-D or UN/AAR patterns whether or not an originating record is provided to the customer.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.18

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

k. Electronic Tandem Switching (ETS) (cont'd)

(3) Central Office Portion of the Service (No. 1A ESS) (cont'd)

	USOC	Non-recurring Charge	36 Months	60 Months	Optional Payment Periods 84 Months
Route selection patterns^{/1}					
- Each UN/AAR pattern	UNP/5	\$51.00	\$ 5.00	\$ 4.70	\$ 4.65
- Each tie line terminated in UN/AAR or ARS-D patterns ^{/2}	UNF/5	-	4.30	4.00	3.95
- Each facility for Automatic Overflow to DDD ^{/3}	UNO/5	14.00	63.00	58.00	57.00
		USOC	Nonrecurring Charge		

Additions, Changes and Rearrangements**Automatic Route Selection - Deluxe**

- Additions, deletions or changes of routes, associated FRL's, or More Expensive Routing (MER) tone application in existing patterns, each pattern RCHAP/5 \$ 38.00
- Addition of patterns by NPA code only per pattern - 51.00
- Addition of patterns by NPA and Central Office codes, per pattern - 181.00
- Addition or deletion of a facility to an existing route - -

/1/ The maximum number of routes in a pattern is four. The maximum number of patterns is one hundred eighty.

/2/ In addition, an ETS type tie line termination is required and charged for as specified elsewhere in this Guidebook.

/3/ In addition, a PBX trunk is required at the rates and charges provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers.

(C)

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

k. Electronic Tandem Switching (ETS) (Cont'd)

(3) Central Office Portion of the Service (No. 1A ESS) (Cont'd)

Additions, Changes and Rearrangements

	<u>USOC</u>	Nonrecurring Charge
<u>Automatic Route Selection - Deluxe (Cont'd)</u>		
- Additions or changes in NPA or Central Office code routing, each code each Pattern Group affected	RCHAC/5	\$29.00
Additions, deletions or changes in Time of Day (TOD) Routing Intervals, each occasion	RCHAT/5	67.00
<u>Deluxe Queuing</u>		
- Change from Ringback Queue to Off-Hook Queue or vice versa, each queue	RCHQ1/5	59.00
- Change in the quantity of queue slots, each queue	RCHQ2/5	59.00
- Change in queue threshold time limit, each queue	RCHQ3/5	59.00
- Change in recorded announcement, each	RCHQ4/5	59.00
- Change in post-queue routing from subsequent routes to tone or vice versa, each queue	RCHQ5/5	59.00
<u>Facilities Restriction Levels (FRL)</u>		
- Changes in FRL, each station line or tie line termination	FRKOO/5 thru FRK07/5	5.00
- Change in a single Authorization Code or associated FRL where Company service order activity is required, each	RCHFA/5	5.00

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.19.

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

K. Electronic Tandem Switching (ETS) (Cont'd)

(3) Central Office Portion of the Service (No. 1A ESS) (Cont'd)

Additions, Changes and Rearrangement

	<u>USOC</u>	Nonrecurring <u>Charge</u>
<u>Station Message Detail Recording</u>		
- Account Codes-change in number of account code digits, each system /a/	RCHMA/5	\$36.00
- SMDR-P records change from recording completed calls only to all calls attempted or vice versa, each system	RCHMC/5	36.00
- Change in status of all station lines on a system or individual facility from "records-not required" to "records-required", each occasion	RCHMF/5	5.00
<u>Uniform Numbering/Automatic Alternate Routing (UN/AAR) /b/</u>		
- Additions, deletions or changes of routes or associated FRL's in existing patterns, each pattern	RCHUP/5	51.00
- Additions of patterns, each pattern	none	51.00
- Addition or deletion of a facility to an existing route	none	-
- Additions or changes in "on-network" location code routing, each code	RCHUC/5	42.00

/a/ Provided at time of initial installation of SMDR-P at no additional charge.

/b/ The customer is responsible for notifying the Company when any change in route or routing sequence is desired.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.20

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

I. Customer Traffic Record

Nonrecurring Charge

Service Establishment Charge - applies for the establishment of the Customer Traffic Record Common Equipment.

\$7,910.71

Common Equipment (including central office data set) required to collect and transmit CTR data, each system^{/1}

USOC	Non-recurring Charge	Optional Payment Periods		
		36 Months	60 Months	84 Months
NFB	\$377.29	\$206.90	\$206.90	\$206.90 (C)
Customer Premises Equipment^{/2}				(C)
Traffic Measurements provides, at the customer's option: incoming peg count, outgoing peg count, overflow peg count, traffic usage, maintenance usage, and similar usage information				
- per label (column or row descriptor)	NFE	4.26	-	-
- per traffic measurement selected	NFG	4.26	-	-
- per line, a maximum of one printout in any one hour	NFP	-	27.99	27.99
- per line, a maximum of two printouts in any one hour	NFQ	-	42.60	42.60
Facility Assurance Reports (NUTS and LUTS), each facility reported	NFK	3.65	0.30	0.30

/1/ In addition, a Telegraph Grade Service is required between the serving wire center common equipment and the data receiving equipment at the customer premises. The monthly rates and nonrecurring charges provided via unregulated Dedicated Communication Service, are additional. (C)
 /2/ A customer premises teletypewriter or equivalent is required to receive transmitted data. (C)

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

1. Customer Traffic Record (Cont'd)

Additions and Rearrangements

	<u>USOC</u>	Nonrecurring <u>Charge</u>	Optional Payment Periods		
			<u>36</u> Mos.	<u>60</u> Mos.	<u>84</u> Mos.

Traffic Measurements

- Subsequent addition to, removal from, or rearrangement of the customer's printout format, the features or facility groups measured, or the column or row labels, each occasion
- Change printout time schedule, each occasion

NRCAF	\$4.26	-	-	-
NRCAG	24.34	-	-	-

Facility Assurance Report

Subsequent addition or removal of facilities from the report, each occasion

NRCAH	3.65	-	-	-
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Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.21

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

1. Customer Traffic Record (Cont'd)

Cancellation Charges

Cancellation charges apply in the event of the following:

- Cancellation after the installation of the required equipment and facilities is completed, but before service is established. The nonrecurring charge for the establishment of the CTR common equipment is applicable.
- Cancellation of service before the installation is completed. A charge consisting of the loss on equipment and facilities in the process of being installed, the installation labor, the labor cost of removal and other costs is applicable.

m. Busy Verification By Attendant

	<u>USOC</u>	Nonrecurring Charge	<u>Optional Payment Periods</u>		
			<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>
<u>Busy Verification</u>					
<u>Trunks</u>					
- Per system	EDSVT	\$97.36	\$3.35	\$3.35	\$3.35
- Per trunk group	NRCAO	16.39	-	-	-
<u>Station Lines</u>					
- Per system	EDSVS	97.36	3.65	3.65	3.65

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.22

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

n. Optional Multi Line Hunting Arrangements

	USOC	Non-recurring Charge	36 Months	60 Months	84 Months	Optional Payment Periods
Uniform Call Distribution^{/1}						
- Per MLHG equipped	A6T	\$ 51.12	-	-	-	(C)
- Each station line in the hunting group	A6V	3.35	\$ 0.37	\$ 0.37	\$ 0.37	
Multiple Position Hunt (includes Circle Hunt and Position Busy^{/4} features)						(C)
- Common equipment, per hunt group equipped	MPV	280.00	25.00	25.00	25.00	
- Per attendant access line equipped	MP8	16.00	-	-	-	
- Per position equipped	MP7	50.00	4.00	4.00	4.00	
Preferential Hunt^{/1}						
- Per MLHG equipped	EH7	54.77	-	-	-	(C)
- Per station line equipped	EH8	14.60	1.64	1.64	1.64	
Queuing^{/2}						
- Common Equipment	A8A	255.59	19.17 ^{/2}	19.17	19.17	(C)
- or station line arranged for queuing ^{/3}	A82	25.56	7.03 ^{/2}	7.03	7.03	(C)
- Additional queue slots (where facilities permit), each	A83RA	-	1.73 ^{/2}	1.73	1.73	(C)

/1/ Includes Circle Hunt feature. (C)

/2/ These items, rates and charges are the same as provided for ESS-ACD Type A service. (C)

/3/ Includes one-half of a queue slot per station line. (C)

/4/ In addition apply rates and charges provided via unregulated Dedicated Communications Service for a 2 wire voice grade Direct Analog Service. (C)

(C)

(C)

(C)

(C)

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

n. Optional Multi Line Hunting Arrangements (cont'd)

	USOC	Non-recurring Charge	36 Months	60 Months	84 Months	Optional Payment Periods
Make Busy Arrangements^{/1//2/}						
- Per station line group	A9A	\$ 19.17	\$ 1.73	\$ 1.73	\$ 1.73	(C)
- Per station line	A6G	19.17	1.73	1.73	1.73	
Night Transfer^{/1//2/}						
- Per station group equipped	A3T	19.17	2.23	2.23	2.23	(C)
Calls Waiting Indication, per unique timing state^{/3//4/}	A66CE	31.95	3.83	3.83	3.83	(C)
Delay Announcement^{/4/}						
- Per Announcement (maximum of 4 where facilities permit)	A8GCE	159.74	70.28	70.28	70.28	(C)
- Per Announcement trunk	A8GAT	95.84	14.06	14.06	14.06	
- Per station line	A8GST	-	3.21	3.21	3.21	
Silence or Customer Provided Music^{/5/}						
After Delay Announcement						
- Per trunk access	A5T	91.28	7.30	7.30	7.30	(C)

/1/ These items, rates and charges are the same as provided for ESS-ACD Type A service. (C)

/2/ In addition apply rates and charges for a 2 wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service. (C)

/3/ Requires a control channel per timing state. Apply rates and charges specified in Tariff M.P.S.C. No. 20R, Part 21, for a 2 wire voice grade Direct Analog Service. (C)

/4/ These items, rates and charges are the same as provided for ESS-ACD Type A service. (C)

/5/ In addition, apply rates and charges for a 2 wire voice grade Direct Analog Service apply. (C)

(C)

(C)

(C)

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

n. Optional Multi Line Hunting Arrangements (Cont'd)

	<u>USOC</u>	<u>Nonrecurring Charge</u>	<u>Optional Payment Periods</u>		
			<u>36 Mos.</u>	<u>60 Mos.</u>	<u>84 Mos.</u>
<u>Foreign Exchange (FX) Termination /d/</u>					
- Per trunk group equipped	TCR	\$97.36	-	-	-
<u>800 Service Termination /d/</u>					
- Per 800 Service group equipped	TCR	97.36	-	-	-
<u>Non Hunt Telephone Number</u>	NHL	13.39	-	-	-
<u>Changes and Rearrangements</u>			<u>USOC</u>	<u>Nonrecurring Charge</u>	
<u>Uniform Call Distribution</u>					
- To change station treatment codes or class of service codes in a UCD hunt group, each			NRCPH	\$14.60	
<u>Preferential Hunt</u>					
- To change station treatment codes or class of service codes in a Preferential Hunt group			NRCPH	14.60	
- To rearrange or delete stations within a Preferential Hunt list, per list affected.			NRCPH	14.60	
<u>Multiple Position Hunt</u>					
The following charges apply for changes or rearrangements of the MPH feature.					
- Multiple Position Hunt group			NRCMS	95.00	
- Multiple Position Hunt Attendant Access Line			NRCMS	18.00	
- Multiple Position Hunt position			NRCMS	40.00	

/d/ A termination is required for each FX or 800 Service group utilizing either UCD or Preferential Hunt features. In addition, a queue slot is required for each FX or 800 Service facility.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.24 and Original Sheet S-15.54.25.

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

n. Optional Multi Line Hunting Arrangements (Cont'd)

Nonrecurring
Charge

Delay Announcements

- For the change of a Delay Announcement recording \$109.53
- For other changes or rearrangements not covered above the charges will be determined separately for each case in accordance with the provisions for establishing charges for special equipment and arrangements covered elsewhere in the tariff.

o. Attendant Trunks

	USOC	Optional Payment Periods			
		Nonrecurring Charge	36 Mos.	60 Mos.	84 Mos.
- Supplemental Attendant Trunks, each	P25	\$16.39	\$7.55	\$7.55	\$7.55
- Digit Absorbing Attendant Trunks,					
- First trunk	ATG	16.39	15.42	15.42	15.42
- Additional trunks, each	AT2	16.39	7.74	7.74	7.74

p. Switching Arrangements

(1) Tandem Dial Switching Arrangement

Tandem Dial Switching Arrangement, Per Private Line Channel Terminal Equipped	48B	16.39	4.87	4.87	4.87
<u>Termination Charge Base/a/</u>					
					\$98.69

/a/ Reduces 1/60 for each month of service.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.25 and Original Sheet S-15.54.26.

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

p. Switching Arrangements (cont'd)

(2) Other Switching Arrangements

Other switching arrangements not covered above will be furnished where practicable. Charges will be determined separately in each case in accordance with the provisions for establishing charges for Special Equipment and Arrangements specified elsewhere in the tariff.

q. Tie Line Features

(1) Tie Line Features^{/1/}

	USOC	Non-recurring Charge	Optional Payment Periods	(C)		
			36 Months	60 Months	84 Months	
Dial Type Feature						
- Tie Line Termination per Trunk Group	RGN	\$200.00	-	-	-	
- Tie Line Termination per Trunk Unit	RXN	11.00	\$ 70.00	\$ 70.00	\$ 70.00	
(2) Electronic Tandem Switching (ETS) Type Tie Lines ^{/1/}						
Tie Line Terminations						(C)
- Per equipped ETS Centrex system; ETS-type tie line terminations, each	ETX	60.86	40.16	40.16	40.16	
- Centrex systems, apply Dial Type Feature charges specified elsewhere in this tariff.						
(3) Advanced Private Line Termination ^{/1/}						
- Advanced Private Line Termination, each	PLS	25.56	109.53	109.53	109.53	
- Service Establishment Charge		608.51	-	-	-	

/1/ Rates and charges for 4 wire voice grade Direct Analog Service (Local Distribution Channels, Channel Mileage, Channel Mileage Terminations and Signaling Capability) provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers apply. (C)

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

r. Conference Equipment

Conference equipment is furnished at the following charges, subject to transmission limitations.

Manual Type	Optional Payment Periods				
	USOC	Nonrecurring Charge	36 Mos.	60 Mos.	84 Mos.
- Centrex systems equipped with consoles. Five station lines or one Central Office trunk and four station lines capacity.	CEG	\$16.39/a/	\$25.47	\$25.47	\$25.47

s. Attendant Control of Facilities (ACOF)

The following rates and charges are for the ACOF feature only and are in addition to the charges specified elsewhere in Company tariffs for a 2 wire voice grade Direct Analog Service between the serving wire center and the customer premises.

Attendant Control of Facilities, per facility group to which access is denied

- With call routing to the attendant	E22	114.85	7.31	7.31	7.31
- With call routing to a common Centrex announcement	E23	114.85	88.75	88.75	88.75

Moves, Changes or Rearrangements

- For a change or rearrangement of a facility group equipped with ACOF, a nonrecurring charge of \$17.75 applies for each facility group affected. (USOC - NRCMS)
- For a change in call routing from the attendant to an announcement, or vice versa, the call routing nonrecurring charge applies.

t. Vacant

/a/ Not applicable if installed at the same time as the Centrex system.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.28

CENTREX V (cont'd)**D. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

u. Loudspeaker Paging Access^{/1/} (C)

		USOC	Non-recurring Charge	Optional Payment Periods	36 Months	60 Months	84 Months	
(1)	One-way Outgoing, Single Zone Paging ^{/2/}							(C)
	Station, Attendant and Tie Line Access; Rotary Dial or TOUCH-TONE							
	- First trunk	WOX1	\$210.00 ^{/4/}	\$ 50.00	\$ 50.00	\$ 50.00	\$ 50.00	(C)
	- Additional trunks, each	WOXA	25.00	50.00	50.00	50.00	50.00	
(2)	One-way Outgoing with Multizone Paging ^{/2/}							(C)
	Station, Attendant and Tie Lines Access; TOUCH-TONE							
	- First trunk	WPT1	230.00 ^{/4/}	55.00	55.00	55.00	55.00	(C)
	- Additional trunks, each	WPTA	25.00	55.00	55.00	55.00	55.00	
	Station, Attendant^{/3/} and Tie Line Access; Rotary Dial							(C)
	- First trunk	WPR1	230.00 ^{/4/}	62.00	62.00	62.00	62.00	(C)
	- Additional Trunks, each	WPRA	25.00	62.00	62.00	62.00	62.00	
(3)	One-way Outgoing, Single or Multizone with Answer Back							
	Station, Attendant^{/3/} and Tie Line Access, Rotary Dial or TOUCH-TONE							(C)
	- First trunk	WQX1	230.00 ^{/4/}	65.00	65.00	65.00	65.00	(C)
v.	Direct Connect							
	- Per station line equipped	ODC	50.00	1.00	1.00	1.00	1.00	
w.	Station Dial Conference							
	- Per feature (6 port)	EAN	260.00	110.00	110.00	110.00	110.00	
	- Per station line equipped	EGJ	15.70	-	-	-	-	

/1/ Customer required to provide suitable interface unit.

(C)

/2/ Requires a 2 wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service.

/3/ Not available for use with the 51A attendant console.

/4/ The nonrecurring charge includes provision of one access code.

(C)

CENTREX V (cont'd)**D. RATES AND CHARGES (Cont'd)**

3. Optional Features (Cont'd)

x. Recorded Telephone Dictation Access Feature^{/3/}

	USOC	Non-recurring Charge	Optional Payment Periods	36 Months	60 Months	84 Months
Station Access; Rotary Dial ^{/1/}						
- First trunk	EDR	\$230.00 ^{/2/}	\$60.00	\$60.00	\$60.00	\$60.00
- Additional trunks, each	EDRRA	25.00	60.00	60.00	60.00	60.00
Station, Tie Line and Attendant Access; TOUCH-TONE ^{/1/}						
- First trunk	EDN	230.00 ^{/2/}	55.00	55.00	55.00	55.00
- Additional trunks, each	EDNTA	25.00	55.00	55.00	55.00	55.00
y. Radio Paging Access Feature ^{/3/}						
Station Access; Rotary Dial ^{/1/}						
- First trunk	RPFR1	230.00 ^{/2/}	40.00	40.00	40.00	40.00
- Additional trunks, each	RPFRA	25.00	40.00	40.00	40.00	40.00
Station, Tie Line and Attendant Access; TOUCH-TONE ^{/1/}						
- First trunk	RPFT1	230.00 ^{/2/}	35.00	35.00	35.00	35.00
- Additional trunks, each	RPFTA	25.00	35.00	35.00	35.00	35.00

/1/ Requires a 2 wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service. (C)

/2/ The nonrecurring charge includes provision of one access code.

/3/ Customer required to provide suitable interface unit.

CENTREX V (Cont'd)

D. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

z. 800 Service Call Transfer

The following rates and charges for the 800 Service Call Transfer feature are in addition to the rates and charges for the termination of an 800 Service line in a Centrex system

	USOC	Nonrecurring Charge	Optional Payment Periods		
			36 Mos.	60 Mos.	84 Mos.
- 800 Service Call Transfer Feature, per 800 Service line /a/	YYO	\$70.00/b/	-	-	-
aa. Remote Access Feature					
- Remote Access, full feature, each (includes Remote Reoriginate, Call Timeout, and Security Code)	CXT	250.00	\$37.00	\$34.00	\$33.00
- Remote Access, limited feature, each (includes Remote Reoriginate)	CXTLF	250.00	30.00	28.00	27.00
- Changes	CXTNR	40.00			
- Change Security Code		40.00			
- Change Call Timeout limit					
- Change Security Code and Call Timeout limit at same time		60.00			
- Change from full feature to limited feature service or vice versa		40.00			

/a/ In addition the monthly rate for the appropriate Centrex station line specified elsewhere in this tariff applies.

/b/ The nonrecurring charge does not apply if provided at the time of initial installation of the Centrex system.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.54.31

CENTREX-DS /a/

A. SUSPENSION OF SERVICE

Suspension of service, except for Dormitory Service station lines, is not offered for the Centrex-DS system.

/a/ Rates in effect for service no longer offered for new installations.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.60.2.

CENTREX-DS

B. FEATURE DESCRIPTIONS

1. System

Access to Common Control Switching Arrangement (CCSA) Network - enables a station user to gain access to the CCSA network by using special access codes.

Access to Enhanced Private Switched Communication Service (EPSCS) - enables station users to gain access to the EPSCS by using special access codes or dialing patterns.

Access to Electronic Tandem Network (ETN) - provides the capability to access the ETN.

Access to Special Service Facilities - enables station users or the attendant to gain access to Foreign Exchange line, tie lines, and WATS lines by dialing special access codes.

Automatic Route Selection - Basic (ARS-B) - provides for dial completion of outgoing calls, from Centrex station lines over a variety of available facilities subscribed to by the customer.

With this feature, trunk route lists are automatically searched for an idle outgoing trunk, and if no route is available, overflows to either:

- The local exchange trunks provided with the Centrex system, or
- To reorder tone or recorded announcement.

The following optional features may be provided with systems equipped with ARS:

- Call Back Queuing (CBQ) - permits a station user, encountering an all-trunk-busy condition, to be notified when a trunk becomes idle, then to be automatically connected to the called number.
- Expensive Route Warning Tone (ERWT) - provides a warning tone to the caller that indicates the selection of an expensive route.
- Off-Hook Queuing (OHQ) - permits a station user to wait off-hook when a call cannot be completed because an idle outgoing trunk is not immediately available among the inexpensive route set.
- Time-of-Day (TOD) - permits preprogrammed selection of alternate routing pattern groups for off-network calls on a time-of-day and day-of-week basis.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.

B.FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Class of Service Restrictions - provides the capability to allow or deny individual station features. The restriction can be arranged to control all calls originating or terminating on stations or tie lines.

- Fully Restricted Service - Two types of Fully Restricted Service are applied to stations as described in the following:
 - o attendant restricted stations are denied access to the exchange network:
 - o fully restricted stations are denied access to the exchange network and to the attendant.
- Semi-Restricted Service - allows access to the exchange network through the attendant only.
- Toll Restricted Service - enables stations to be either toll denied or assigned toll diversion to the attendant.
- Unrestricted Service - allows stations to access the exchange network, the MTS network or any service accessible by dialing.

Code Call Access - allows stations to access customer-provided code call equipment by dialing an access code and a called party code. The called party code is transferred to the code call equipment. The code call equipment activates the customer-provided signaling devices to alert the called party. The called party can be connected to the calling party by dialing a code call pickup code from any station.

Code Restriction - enables the customer to block or allow one or more 3- through 10-digit numbers when these numbers are dialed by selected stations within the customer group.

Consultation Hold - allows the transferring party to talk privately with the destination before transferring the call or establishing a 3-way Conference/Transfer.

Datapath /a/ Modem Polling - enables a Datapath user to communicate with other users served by conventional analog modems. This feature supports two-wire modems that can typically transmit up to 4.8 Kbps, subject to operational limitations of the central office equipment and outside plant facilities.

Dictation Access and Control (DTMF only) - provides station access to customer-provided dictation recording equipment by dialing an access code. This feature also provides dictation equipment control functions, such as playback and correct, by transmitting Dual Tone Multi-Frequency (DTMF) tone to the dictation recording equipment.

Direct Inward Dialing (DID) - allows for incoming calls from the exchange network (not special service circuits) to reach a specific customer group station without attendant assistance.

/a/ Trademark of Northern Telcom Inc.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.1.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Direct Outward Dialing (DOD) - allows a station user to place external calls to the exchange network without attendant assistance, by dialing the DOD access code, receiving a second dial tone, then dialing the external number.

Distinctive Ringing - provides a different and distinct ringing cadence for intragroup and DID calls, to enable the called station user to identify the source or types of calls.

End-to-End Signaling - enables a station user, while in the talking state, to send DTMF digits to the other end by using a dial pad of a tone signaling type telephone set. This feature can be used for services such as dictation control.

Flexible Intercept - allows for the automatic rerouting of calls that cannot be completed because of imposed restrictions, equipment or dialing irregularities. Calls are routed to a recorded announcement of limited duration.

Loudspeaker and Radio Paging Access - allows stations and attendants to access customer-provided loudspeaker and radio paging equipment located throughout the customer's premises.

Loudspeaker Paging-Line Termination - provides the capability to have loudspeaker paging equipment terminated on a line rather than a trunk from the Centrex-DS. Some paging equipment requires DTMF digits to be output from the switch.

Meet-Me-Conference - provides a 6-party conference bridge and directory number for conferees to dial at a specified time to hold a conference.

Night Service (requires a customer-provided console) - provides for the handling of calls when the attendant is absent. Night Service is basic Centrex-DS feature. Fixed or Flexible Night Service is always provided but Trunk Answer From Any Station ((TAFAS) is optional.

- Fixed - allows calls that are normally routed to the attendant during the day, to be routed to predesignated locations at night. The predesignated route can be an individual directory number or a hunt group.
- Flexible - allows the attendant to program the Night Service routes for each Incoming Call Identification (ICI) classification assigned to the customer group.
- Trunk Answer From Any Station (TAFAS) - allows any station in the customer group to answer an incoming call by dialing a code. The code is dialed when the TAFAS alerting device sounds.

Remote Access - permits selected outside callers to dial from the switched network directly into the customer's Centrex-DS system and gain access to network facilities, without attendant assistance. Operationally, the caller dials a 7- or 10-digit directory number (or an INWATS number for an automatic answer), then an authorization code and the called number.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.1 and Original Sheet S-15.62.2.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Split Service - permit segregation of station lines into separate groups, using an additional common block, thereby enabling each separate group to have a different set of common features.

Station to Station Calling - allows Centrex-DS station users to complete calls to other stations without the assistance of an attendant, by dialing a 2- through 7- digit number.

Station Message Detail Recording (SMDR) - is an arrangement to provide a record, consisting of the calling number, the called number, date time-of-day, duration of call and the type of facility used. The magnetic tape record will be provided to customers requiring message detail for cost allocation and telecommunications system management purposes.

SMDR is offered only where the Company's message billing process has been arranged to provide this optional feature.

SMDR is ordinarily provided on a per Centrex system basis. Customers may request individual billing for certain components of the Centrex system instead of for the total system and will be charged based on costs incurred in providing the SMDR under this arrangement.

The magnetic tape density, number of tracks and record format will be that used by the program and data processing system in use by the accounting center furnishing the tape.

The following optional features may be provided with systems equipped with SMDR:

- Authorization Code - provides a means of identifying callers for billing purposes and to control network access. The caller can voluntarily dial in an Authorization Code before dialing the called number, or compulsorily dial in the Authorization Code after dialing the called number and on receipt of a code prompt.

Tandem Trunking Access (Senderized Operation) - allows tandem connection of special service circuits dedicated to a customer group. Such trunk-to-trunk connections are controlled by the class-of-service restrictions of the trunk groups involved.

Three-Way Conference Transfer - is a combination of the Three-way Conference feature and the Call Transfer feature. Call Transfer is assigned to a customer group and a Three-Way Conference is assigned to a line.

Tie Line Termination - provides for the connection of a tie line to the Central Office switching equipment. This includes tie lines used with CCSA, EPSCS, ETN or other special networks.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.2 and Original Sheet S-15.62.3.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

1. System (Cont'd)

Uniform Call Distribution (UCD) - provides for an even distribution of incoming calls to a Listed Directory Number (LDN) over a group of stations. This group of stations is called a UCD group.

The following optional features may be provided with systems equipped with UCD:

- Delay Announcement - provides recorded announcement of limited duration advising of the delay in answering.
- Music Interface (After Delay Announcement) - provides for interconnection with a customer provided music source. At the customer's option music may be provided to a caller in queue after the Delay Announcement instead of silence.
- Night Transfer - provides the capability to transfer calls from the UCD group to another specified answering location.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.4.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

2. Station

Automatic Callback - permits a station user who attempts an intercommunication call to a busy station line to be automatically connected to that line when both called and calling lines are subsequently idle. Automatic callback is only operational for intercommunication calls between station lines of the same customer group.

Call ForwardingBusy Line

- Individual - allows incoming calls from outside the system to a busy station line to be automatically routed to a preselected station line or to the attendant on the same system.
- All Calls - allows all incoming calls to a busy station line to be automatically routed to a preselected station line or to the attendant on the same system.

Don't Answer

- Individual - allows incoming calls from outside the system to a station line to be automatically routed to a preselected station line or to the attendant on the same system when a called station is not answered after a preset number of ringing cycles.
- All Calls - allows all incoming calls to a station line to be automatically routed to a preselected station line or to the attendant when a called station is not answered after a preset number of ringing cycles.

Variable - permits a station user or attendant to establish automatic routing of all incoming calls to a station line to a preselected station line, to the attendant, or optionally to a line outside the system. When activated by the attendant, calls intended for station lines automatically route to another station line in the same system or to the attendant.

Call Hold - allows a station user to "hold" any call in progress by flashing and then dialing a "hold" code, thus freeing the same line for the purpose of originating another call or returning to a previously held call.

Call Pickup - allows a station user to answer incoming calls to another station within a defined Call Pickup group. This feature is provided on individual stations within a customer group.

Directed Call Pickup

- Barge-In - Permits a station user, by dialing a special code and the station number to pick up a call that is ringing on any other station within the same customer group. If the call has already been answered the instigating station will barge in and be connected into a three way call.
- Non Barge-In - Permits a station user, by dialing a special code and the station number, to pick up a call that is ringing on any other station within the same customer group. If the call has already been answered the instigating station will not barge in but will receive a busy tone.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.5.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

2. Station (Cont'd)

Call Transfer of Incoming Calls - enables a station with this feature to hold and transfer incoming Enhanced Private Switching Communication Service (EPSCS), Direct Inward Dialing (DID) and tie trunk calls. The station receiving the transferred call must be internal to the customer group.

Call Transfer of Outgoing Calls - enables a station with this feature to hold and transfer both incoming and outgoing calls. On outgoing calls, one station in the final connection must be internal to the customer group.

Call Transfer of All Calls - enables a station with this feature to hold and transfer incoming, outgoing and intragroup calls. On intragroup calls, trunk-to-trunk connections are permitted, provided one Centrex station line or trunk remains on the call.

The Call Transfer features for incoming, outgoing and intragroup calls include the following features:

- Consultation Hold - permits the transferring party to talk privately with the destination before transferring the call.
- Add-On - permits the transferring party to establish a Three-Way Conference call before transferring the call.

Call Waiting - with this feature an incoming call encountering a busy station receives audible ringing. The called busy station receives a Call Waiting tone. The called busy station may then place the existing caller on hold and acknowledge the incoming caller, then alternate between the callers, or abandon one of the calls.

- Dial - permits a station user to impose call waiting on a busy station within the same customer group by dialing the call waiting feature activation code followed by the station number. While waiting, the caller will hear either audible ringback tone, a recorded announcement or music.
- Originating - permits a station user to automatically impose call waiting on a busy station within the same customer group. While waiting, the caller will hear either audible ringback tone, a recorded announcement or music.
- Distinctive Tones - provides distinctive tone cadences to permit a station user to determine whether an incoming waiting call is external or internal to the customer group.

Central Office Make Busy - this feature may be assigned to any hunt line, directory number, multiline hunt line, or distributed hunt line. Controlled by a customer provided external key, the line is made permanently busy when the key is activated, and is normal when the key is not activated.

Central Office Stop Hunt - this feature may be assigned to any hunt line, directory number, multiline hunt line, or a distributed hunt line. This feature is controlled by a customer-provided external key. When the key is not activated, the line is normal. The hunting feature is canceled when the key is activated.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.6.

CENTREX-DS (Cont'd)

B. FEATURE DESCRIPTIONS (Cont'd)

2. Station (Cont'd)

Data Call Protection - allows the customer to have a no-double-connect option assigned to individual lines within the customer group. When a line is assigned this option the switching equipment does not allow the connection of test or busy verification circuits to the line while the line is busy. This option protects a data call from interruption.

Datapath Access - provides modification of a station line to furnish transmission of digital data over a single, two wire, nonloaded subscriber loop to provide full-duplex data capability up to 56 Kbps between a compatible customer-provided data unit and the switching equipment. Provisioning is subject to operational limitations of the Central Office equipment and the outside plant facilities. The normal distance limitation from the switching equipment to the data unit is 2.0 cable miles. The service may be extended to 3.0 cable miles at charges based on cost.

Direct Connect - provides an automatic connection between a calling station that goes off-hook and a predetermined location. The calling station does not receive dial tone. The automatic connection is made to a stored number consisting of one through 11 digits.

Do Not Disturb (DND) - includes the following capabilities:

- Selected Single Station Diversion - permits the attendant to cut off a single station from receiving Direct Inward Dialing (DID) and station-to-station calls.
- Selected Group Station Diversion - permits the attendant to cut off selected groups of stations from receiving DID and station-to-station calls (a group usually consists of a hospital ward or floor).
- All Stations Diversion - permits the attendant to cut off all stations that are organized into diversion groups from receiving DID and station-to-station calls.
- Attendant Completion of Calls to Diverted Stations - While any one of the forms of diversion is active, the attendant can complete a call to the affected station (the attendant has override capability).
- Attendant Control of Station Diversion - allows the attendant to activate and deactivate the forms of diversion.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.7.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

2. Station (Cont'd)

Electronic Business Set Access - provides modification of a station line to furnish a single, two wire, nonloaded subscriber loop for access by pre-programmed pushbutton features on telephone sets. The normal distance limitation from the switching equipment to the set is 2.5 cable miles. The service may be extended to 3.4 cable miles at charges based on cost.

Executive Busy Override (EBO) - allows a station user to gain access to a busy station by flashing the switchhook during busy tone, then dialing a feature code. The calling station must be a station line assigned the EBO feature. The called station must be in the same customer group as the calling station.

Hunting - Three different types of hunting are available with Centrex-DS service: directory number hunting, multi-line hunting and distributed line hunting.

- Directory Number Hunting (DNH) - each line in this hunt group has its own unique Directory Number (DN). The hunt group can be accessed by dialing any number in the hunt group, but the number of lines hunted depends on the hunting option (i.e., circular or sequential) assigned to the DNH group. Circular hunting hunts all lines in the hunting group regardless of the starting point. Sequential hunting starts at the number dialed and ends at the last number in the group.
- Multiline Hunting (MLH) - only the pilot DN is associated with this hunt group. Hunting is sequential, i.e., starting at the first line assigned to the pilot DN and ending at the last line.
- Distributed Line Hunting (DLH) - only the pilot DN is associated with this hunt group. Hunt starts at the first idle line found by the previous hunt and continues until the hunting starting point is reached. DLH is assigned to large hunt groups requiring an equal distribution of calls.

The following hunting features can be assigned to DNH, MLH, and DLH groups:

- . Line Hunt Overflow to a Route (LOR) - when all lines in a hunt group are busy, this feature enables hunting to continue to a specified route index.
- . Line Hunt Overflow to a DN (LOD) - when all lines in a hunt group are busy, this feature enables hunting to continue to a specified DN, which can also be part of a hunt group.

When LOD or LOR is not assigned to a hunt group and the hunt group is busy, the caller receives busy tone.

Make Set Busy - allows the station user to activate the feature by dialing the activation code. A different code is dialed to deactivate the feature. Incoming calls to the station while the feature is active will be diverted but a momentary ringing signal will be applied as a reminder to the station user who has activated the feature.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.8.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

2. Station (Cont'd)

Permanent Hold - allows a station to hold one active call against its directory number without attendant assistance. When Permanent Hold is active other calls cannot be originated or terminated, and other features cannot be activated by either station.

Speed Calling - allows a user to place calls to a previously designated list of frequently dialed numbers. This is achieved by dialing an asterisk plus one or two digits instead of all digits of the desired number. The desired number may be a directory number, authorization code, account code or access code.

- Individual-Short List. The use of Speed Calling short list is limited to single digit codes and can be accessed by only one user.
- Individual-Long List. The long list provides two-digit codes and is dedicated to an individual line.
- Group-Long List. This list has two digit codes and can be accessed by a number of users. However, only the controller can add to, change or delete numbers from the list.

Station Call Park - allows a station to park a call against its own station number. The parked call can be retrieved from any station by dialing a feature code and the directory number that the call is parked against.

Station Controlled Conference - allows a station user to establish a conference call consisting of more than three conferees (maximum of six) without the assistance of the attendant.

Transfer to Attendant - enables a station to transfer a call to the attendant by either depressing the switchhook only or by depressing the switchhook and dialing zero.

Three-Way Conference - allows a station with the Three-Way Conference feature to establish three-way conference calls beyond the limits of the transfer type defined for the customer group.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.8 and Original Sheet S-15.62.9.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

3. Attendant Console

The following attendant console features are program controlled in the serving Centrex-DS central office. These features are available only in conjunction with compatible customer-provided attendant consoles.

Attendant Call Park Reminder Timer - provides a separate timer for calls parked by the attendant. The timer defines the maximum time period that a call can spend in the parking lot.

Attendant Call Selection - enables an attendant to answer incoming calls using either of the following methods.

- in the order they are received, regardless of the incoming call type;
- by manually selecting a specific incoming call type.

Attendant Camp-On - allows an attendant to extend an incoming call to a busy station. When the busy station becomes idle, it automatically rings and is connected to the waiting call.

Attendant Conference - enables an attendant to establish a 6-port conference call (not including the attendant).

Attendant Console Display - assists attendants in handling calls efficiently. The display unit is module and is attached to the attendant console. It consists of a 16-alphanumeric character display, 28 lamps and a 28-button keyboard.

Attendant Control of Trunk Group Access - allows the attendant to control access of all stations and incoming trunks to various trunk groups by operating corresponding keys.

Attendant Locked Loop Operation - allows the attendant to hold a call on a loop.

Attendant Release Upon Completion of Dialing - allows an attendant to extend a call to a trunk, then release the call after the dialing is completed and before outpulsing to the trunk is completed.

Automatic Recall - provides two automatic recall timers: one for don't answer calls and Call Waiting recalls and one for camped-on recalls.

Busy Verification - allows an attendant to determine whether stations or trunks are busy or idle.

Call Hold - allows an attendant to manually hold a call on the loop by depressing the hold/release key, or automatically hold the call on the loop by depressing another loop key.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.10.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

3. Attendant Console (Cont'd)

Call Park - allows the attendant to park calls against any directory number in the attendant customer group. The parked call may be retrieved from any station by dialing the feature access code for retrieval plus the directory number. The attendant may also retrieve calls parked by stations and by attendants.

Code Calling Line Termination - allows an attendant to access customer-provided code call equipment by dialing an access code and a called party code.

The called party code is transferred to the code call equipment which activates customer-provided visual/audible signaling devices to alert the called party. The called party can be connected to the calling party by dialing a code call pickup code from any station.

Console Test - allows an attendant or maintenance personnel to test the functional operations of a console.

Delayed Operations - enables the attendant to place a call for a calling station while the calling station waits on-hook. When the called station answers the attendant can recall the calling station by depressing the signal source key. On answering, the calling station and the called station are connected.

Flexible Console Alerting - alerts an attendant to a call requiring attention by an alert tone that is sent through the headset, not the console speaker.

Interposition Calls and Transfers - enables an attendant to call and speak to another attendant and to transfer a call to another attendant.

Lockout - denies an attendant the ability to re-enter a call unless the attendant is recalled by a station user or by Automatic Recall.

Lockout applies only to connected calls that remain held on the attendant loop. The attendant is automatically denied access to calls that are released from the loop, except through Busy Verification.

Multiple Listed Directory Numbers - a customer may have many listed directory numbers. To handle this efficiently, each number has a unique Incoming Call Identification (ICI) lamp so that the attendant can answer appropriately.

The only limit on the number of listed directory numbers that can be assigned is the number of available lamps and keys on the attendant console.

Position Busy - allows the attendant to make the console unavailable to additional queued calls. The attendant can still originate calls and use or program the features available while the console is in the Position Busy state.

Priority Console Alerting - alerts an attendant to an emergency call by flashing lamp and optionally, an alert tone while the console is in any of the following states: idle; active on any type of call; position busy; night service.

Secrecy - allows the attendant to talk to a called party (destination) without the calling party (source) hearing the conversation. When the attendant releases from the call, the source and the destination are connected.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.11.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

3. Attendant Console (Cont'd)

Serial Call - allows an attendant to extend a call to more than one station.

When a caller wants to be extended to another station following a call to a called station the attendant requests the caller to stay off-hook when the first call is finished.

The attendant then holds the loop so that recall occurs when the called station goes on-hook. The attendant then extends the caller to the other station. In this way, the caller does not have to dial the listed directory number again.

Straightforward Outward Completion - allows a station user in a customer group to have the attendant extend a call outside the customer group. The station user may remain off-hook while the attendant extends the call.

Supervisory Console (Basic) - allows an attendant to call a supervisor for assistance and to extend a call to a supervisor for subsequent call handling. It also allows the supervisor to monitor the progress of an attendant and to give assistance while the attendant is handling a call.

Switched Loop Operation - with the Switched Loop Operation (virtual loop concept), trunks and lines do not have direct termination on the consoles.

Each console may be assigned one through six loops to provide the attendant with voice-access to all calls routed to the console. However, only one call is connected to a console at any one time.

Through Dialing - allows the attendant to select the trunk facility for a station in the same customer group and send dial tone to the station user. The station user then dials the called number. This feature is usually used to override station restrictions in the same customer group.

Timed Recall Set to Zero - allows a customer to cancel the Automatic Recall feature for a specific customer group by inputting a zero (infinite) value for the appropriate attendant recall timers.

Trunk Group Busy/Trunk Group Access Control Through Special Keys - provides special keys to serve as a common interface for trunk group busy and trunk group access control for all trunk groups allocated to the customer group.

Two feature keys on the attendant console are assigned to this feature:

- A group trunk group busy key provides trunk group busy queries for any trunk group allocated to the customer group.
- A group trunk access control key allows an attendant to toggle the Trunk Access Control (TAC) of any trunk allocated to the attendant subgroup.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.12.

CENTREX-DS (Cont'd)

B.FEATURE DESCRIPTIONS (Cont'd)

3. Attendant Console (Cont'd)

Trunk Group Busy Indication - allows for the displaying of the trunk group status on the attendant console. The lamp state associated with a trunk group shows the following:

- off, when one or more trunks in the group is idle;
- on, when all trunks in the group are busy.

Two-Way Splitting - allows the attendant to talk privately to either the calling party or the called party. The attendant can alternate between the source and destination as required. Either the source or the destination can be excluded; both cannot be excluded simultaneously.

Wild Card Key - enables the attendant to invoke special features not directly available through a feature key on the console. Any special feature normally available through the use of a feature key may be invoked through the Wild Card Key, with the exception of incoming call identification.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.62.13.

CENTREX-DS (Cont'd)

C. SYSTEM FEATURES

	<u>Basic</u>	<u>Optional</u>
- Automatic Route Selection (ARS)		X
- Call Back Queuing (CBQ)		X
- Expensive Route Warning Tone (ERWT)		X
- Off-Hook Queuing (OHQ)		X
- Time-of-Day (TOD) Routing		X
- Class-of-Service Restrictions		
- Fully Restricted Service	X	
- Semi-Restricted Service	X	
- Toll Restricted Service	X	
- Unrestricted Service	X	
- Code Call Access		X
- Code Restriction		X
- Common Control Switching Arrangement (CCSA) Access		X
- Consultation Hold	X	
- Datapath Modem Pooling		X
- Dictation Access and Control (DTMF only)		X
- Direct Inward Dialing (DID)	X	
- Direct Outward Dialing (DOD)	X	
- Distinctive Ringing		X
- Electronic Tandem Network (ETN) Access		X
- Enhanced Private Switched Communication Service (EPSCS) Access		X
- End-to-End Signaling	X	
- Flexible Intercept		X
- Loudspeaker and Radio Paging Access		X
- Loudspeaker Paging-Line Termination		X
- Meet-Me-Conference		X
- Night Service/a/		
- Fixed	X	
- Flexible	X	
- Trunk Answer From Any Station (TAFAS)		X
- Remote Access		X
- Special Service Facilities Access	X	
- Split Service		X
- Station-to-Station Calling	X	
- Station Message Detail Recording (SMDR)		X
- Authorization Code		X
- Tandem Trunking Access		X
- Three-Way Conference Transfer	X	
- Tie Line Termination		X
- Uniform Call Distribution (UCD)		X
- Delay Announcement		X
- Music Interface (After Delay Announcement)		X
- Night Transfer		X

/a/ Requires a compatible customer-premises console.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.63.

CENTREX-DS (Cont'd)

D. STATION FEATURES

	<u>Basic</u>	<u>Optional</u>
- Automatic Callback		X
- Call Forwarding	X	
- Busy Line	X	
- Don't Answer	X	
- Variable	X	
- Call Hold	X	
- Call Pickup	X	
- Directed - Barge In	X	
- Directed - Non Barge In	X	
- Call Transfer of Incoming Calls	X	
- Call Transfer of Outgoing Calls	X	
- Call Transfer of All Calls	X	
- Call Waiting	X	
- Dial	X	
- Originating	X	
- Distinctive Tones		X
- Central Office Make Busy		X
- Central Office Stop Hunt		X
- Data Call Protection	X	
- Datapath Access		X
- Direct Connect		X
- Do Not Disturb		X
- Selected Single Station Diversion		X
- Selected Group Station Diversion		X
- All Stations Diversion		X
- Attendant Completion of Calls to Diverted Stations		X
- Attendant Control of Station Diversion		X
- Electronic Business Set Access		X
- Executive Busy Override		X
- Hunting	X	
- Directory Number Hunting	X	
- Multiline Hunting	X	
- Distributed Line Hunting		X
- Line Overflow to Route		X
- Line Overflow to Directory Number		X
- Make Set Busy		X
- Permanent Hold		X
- Speed Calling		
- Individual - Short List	X	
- Individual - Long List		X
- Group - Long List		X
- Station Call Park		X
- Station Controlled Conference		X
- TOUCH-TONE Calling		X
- Transfer to Attendant		X
- Three-Way Conference		X

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.63.1.

CENTREX-DS (Cont'd)

E. ATTENDANT CONSOLE FEATURES

	<u>Basic</u>	<u>Optional</u>
- Attendant Call Park Reminder Timer	X	
- Attendant Call Selection	X	
- Attendant Camp-on	X	
- Attendant Conference	X	
- Attendant Console Display	X	
- Attendant Control of Trunk Group Access	X	
- Attendant Locked Loop Operation	X	
- Attendant Release Upon Completion of Dialing	X	
- Automatic Recall	X	
- Call Hold	X	
- Code Calling Line Termination	X	
- Console Test	X	
- Delayed Operation	X	
- Flexible Console Alerting		X
- Interposition Calls and Transfers	X	
- Lockout	X	
- Multiple Listed Directory Numbers	X	
- Position Busy	X	
- Priority Console Alerting		X
- Secrecy	X	
- Serial Call	X	
- Straightforward Outward Completion	X	
- Supervisory Console (Basic)	X	
- Switched Loop Operation	X	
- Through Dialing	X	
- Timed Recall Set to Zero	X	
- Trunk Group Busy/Trunk Group Access Control Through Special Keys		X
- Trunk Group Busy Indication	X	
- Two-Way Splitting	X	
- Wild Card Key	X	

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.63.2.

CENTREX-DS (Cont'd)

F. RATES AND CHARGES

1. System and Station Lines	<u>USOC</u>	<u>Charge</u>				
a. Service Establishment Charge						
- System Size, 2-199 Station Lines per system	C3CSS	\$525.00				
b. Conversion Charge To convert any Centrex system to Centrex-DS						
- System Size, 2-199 Station Lines, per system		525.00				
- Per Station Line /a/		7.00				
	USOC	Nonrecurring Charge	Term Payment Periods			
			1 Mos.	36 Mos.	60 Mos.	84 Mos.
c. Common Equipment, per system	4CJ	-	\$40.00	\$30.00	\$25.00	\$20.00

/a/ Applies only when a customer initiates conversion from an analog Centrex system to Centrex-DS and adds any or all of the basic Centrex-DS features or deletes or changes any or all features on a station line at the same time.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.64.

CENTREX-DS (Cont'd)**F. RATES AND CHARGES (Cont'd)****1. System and Station Lines (Cont'd)**

d. Station Lines - Business Measured Rate Service	Nonrecurring <u>Charge</u>	Monthly <u>Rate</u>		
<u>Station Lines. each</u>	<u>/a/</u>			
- Exchange Access				
- First 49 Lines - Next 50 Lines - 100 Lines and above	\$2.50 1.00 .85			
Term Payment Periods	1	36	60	84
Mos. Mos. Mos. Mos.	\$14.50	\$9.25	\$8.50	\$8.25
- Intercommunication	16.00	10.75	10.00	9.75
- First 49 Lines	16.15	10.90	10.15	9.90
- Next 50 Lines - Next 100 Lines				
- All systems over 199 lines at the time of establishment of service will be provided on customer-specific Contract Service Arrangements as specified elsewhere in this Guidebook.				(C)
- Growth of systems not covered by a Contract Service Arrangement				
- System growth is permitted at the above rates for the first 199 lines and at the following rates for additional lines up to 249 lines.				
- Intercommunication	15.15	10.15	9.15	8.15
- Lines in excess of 249 will be provided at rates to be developed on an individual case basis. Such individual case based rates will cover all relevant costs plus an appropriate level of contribution.				
- Rates for growth under these conditions will be applicable for the remainder of the existing term payment period and any optional extension period chosen by the customer.				

Nonrecurring Charges. per loop/b/

- Special construction charges based upon the cost of new facilities.

/a/ Line Connection charges specified in Tariff M.P.S.C. No. 20R, Part 3, are applicable.

/b/ Applies to each loop which must be provided via new outside plant facilities. (Outside plant facilities are defined as all or any portion of the voice frequency channel equivalent of new facilities required to extend exchange facilities from the serving Central Office to the customer point of entrance termination.)

CENTREX-DS (Cont'd)

F. RATES AND CHARGES (Cont'd)

2. Additions and Charges

	<u>USOC</u>	Nonrecurring <u>Charge</u>
a. System Additions or Changes		
- Expand station range subsequent to initial cutover, each 100 lines or less /a/	SG9SX	\$25.00
- Add, delete or change a system feature, per feature		65.00
- Add, change or delete an access code, per code		65.00
- Add a Listed Directory Number (LDN) to a console, per console		25.00
- Add, delete or change NPA or NNX to code restriction level, each		2.50
b. Station Line Additions or Changes	<u>USOC</u>	Nonrecurring <u>Charge</u>
- For one or more of the following additions or changes made on a station line at the same time	SG9LC	\$ 7.00
- Add or remove hunting on a station line		
- Add one or more features on a station line		
- Change Class of Service on a station line		
- Change station line number		
- Change Network Class of Service (NCOS) code		
- Add or remove a line from a call pick-up group		
- Rearrange or delete a station line within a Multiline Hunt Group		
- Change a Centrex group number on a station line		
- Change a station line from one group Speed Call List to another		
- Change sub-group number		
- Add features to Electronic Business Set Access		
c. Attendant Console Changes-CO Portion	<u>USOC</u>	Nonrecurring <u>Charge</u>
- Change Wild Card feature	SG9AX	\$35.00
- Change incoming identity and lamp display		35.00
- Change night service DN or console key		35.00
- Change through dialing arrangement		60.00
- Change in multiple console operation		30.00
- Other console feature changes, per feature, per change		20.00

/a/ In addition to any applicable Service Establishment Charges

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.64.2.

CENTREX-DS (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features

	USOC	Non-recurring Charge	Term Payment Periods			
			1 Mo.	36 Mos.	60 Mos.	84 Mos.
<u>Attendant Console Operation</u> ^{1/}						
Central Office common equipment required for operation of customer-provided attendant consoles						
- 1st console arranged	FZD1X	\$210.00	\$50.00	\$40.00	\$37.00	\$35.00
- Additional console arranged, each	FZDAX	125.00	50.00	40.00	37.00	35.00
Access to CCSA, FX ^{2/}						
- Initial trunk in trunk group	T3NTK	60.00	-	-	-	-
- Additional trunks in same trunk group, each						
Automatic Callback	T3NTG	20.00	-	-	-	-
- Per system						
- Per customer group	ACY	600.00	-	-	-	-
- Per station line	SAKPG	27.00	-	-	-	-
Automatic Route Selection-Basic	SAK	4.00	-	-	-	-
- Per system						
- Per 3 digit pattern	AB8	900.00	-	-	-	-
- Per 6 digit pattern	A3A	95.00	-	-	-	-
- Offhook or Callback Queuing (Callback Queuing requires Automatic Callback feature)	ABM	110.00	-	-	-	-
- Per customer group	QDF	35.00	-	-	-	-
- Per route list	RCHQ1	25.00	-	-	-	-
- Per station line	XES	4.00	-	-	-	-
Expensive Route Warning Tone						
- Per customer group	A7QPG	30.00	-	-	-	-
- Per route list	RCHD4	25.00	-	-	-	-
Time of Day Routing						
- Per customer group	ASJ	115.00	-	-	-	-
- Per route list	RCHAT	26.00	-	-	-	-
Add or Delete						
- To a pattern	RCHAZ	26.00	-	-	-	-
- To NPA or NXX		26.00	-	-	-	-
- To route list		18.00	-	-	-	-
- To station		18.00	-	-	-	-

/1/ Does not include compatible customer-provided equipment. (C)

/2/ Rates and charges for local channels, mileage and channel terminations are provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers. (C)

CENTREX-DS (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

	USOC	Non-recurring Charge	Term	Payment Periods	1 Mo.	36 Mos.	60 Mos.	84 Mos.
Call Waiting-Distinctive Tones								
- Per system	RNJPS	\$350.00			-	-	-	-
Central Office Make Busy^{/1}								
- Per arrangement	P89	7.00	\$ 6.00	\$ 4.00	\$ 3.00	\$ 2.50		(C)
Central Office Stop Hunt^{/1}								
- Per arrangement	BRR	7.00	6.00	4.00	3.00	2.50		(C)
Code Calling Access^{/2}								
- Per Code	PLC	50.00	17.00	11.75	11.00	10.75		(C)
Code Restriction								
- Each NPA or NNX,	3DE	2.50	-	-	-	-		
Datapath Access								
- Per system	D3XPS	350.00	-	-	-	-		(C)
- Per Line	D3X	35.00	4.00	4.00	4.00	4.00		
Datapath Modem Pooling								
- Per System	NTDPS	350.00	-	-	-	-		
- Per customer group	NTD	-	40.00	27.00	25.00	24.00		
Dictation Access and Control^{/2}								
- Initial trunk in a trunk group	EWA	60.00	15.00	9.00		8.00	7.00	(C)
- Additional trunks in same trunk group, each	EWB	20.00	15.00	9.00		8.00	7.00	

/3/

/1/ Requires a 2 wire voice grade service provided via unregulated Dedicated Communications Service. Also requires a customer-provided control key.

/2/ Requires a 2 wire voice grade service provided via unregulated Dedicated Communications Service.

/3/ Material now appears on Original Sheet 202.1 in this Section.

CENTREX-DS (cont'd)

/1/

F. RATES AND CHARGES (cont'd)

3. Optional Features (cont'd)

	USOC	Non-recurring Charge	Term	Payment Periods			
			1 Mo.	36 Mos.	60 Mos.	84 Mos.	
Direct Connect							
- Per station	DOK	\$ 4.00	-	-	-	-	
Distinctive Ringing							
- Per system	DRR	600.00	-	-	-	-	
- Per customer group	RNGPG	26.00	-	-	-	-	
Do Not Disturb							
Console activated							
- Per system	XCLPS	515.00	-	-	-	-	
- Per group	XCLPG	95.00	-	-	-	-	
- Per station line	XCL	4.00	-	-	-	-	

/1/

/1/ Material formerly appeared on Original Sheet 202 in this Section.

CENTREX-DS (Cont'd)

F. RATES AND CHARGES (Cont'd)

3	Optional Features (Cont'd)	<u>USOC</u>	Nonrecurring Charge	Term Payment Periods			
				1 Mo.	36 Mos.	60 Mos.	84 Mos.
	<u>Electronic Business Set Access</u>						
	- Per system	B28PS	\$350.00	-	-	-	-
	- Per line/a/	RXRX3	55.00	\$1.00	\$1.00	\$1.00	\$1.00
	<u>Executive Busy Override</u>						
	- Per system	E72PS	575.00	-	-	-	-
	- Per customer group	E72PG	65.00	-	-	-	-
	- Per station originator	E72	4.00	-	-	-	-
	<u>Flexible Console Alerting</u>						
	- Add to system	A5NPS	600.00	-	-	-	-
	- Add to console	A5NPC	18.00	-	-	-	-
	<u>Flexible Intercept</u>						
	- Route to individual recorded announcement	2DP	100.00	37.00	25.00	24.00	23.00
	<u>Hunting</u>						
	- Line Overflow to a Route	HSO	30.00	-	-	-	-
	- Line Overflow to a Directory Number	HSHHP	7.00	-	-	-	-
	<u>Loudspeaker Paging with Line Termination</u>						
	- Per line in customer group	2UUX2	-	17.00	11.75	11.00	10.75
	<u>Loudspeaker and Radio Paging Access with Trunk Termination/b/</u>						
	- Initial trunk in a trunk group	1WOX1	60.00	15.00	9.00	8.00	7.00
	- Additional trunks in same trunk group, each	1WOXA	20.00	15.00	9.00	8.00	7.00
	<u>Make Set Busy</u>						
	- Per system	DXVPS	400.00	-	-	-	-
	- Per line	DXV	4.00	-	-	-	-
	<u>Meet-Me-Conference</u>						
	<u>Priority Console Alerting</u>						
	- Per system	A5VSY	735.00	-	-	-	-
	- Per console	A5VCN	32.00	-	-	-	-

/a/ Requires a station line at rates and charges specified elsewhere in the Company's tariffs.

/b/ Rates and charges for local channels, mileage and channel terminations are specified elsewhere in the Company's tariffs.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.64.5.

CENTREX-DS (Cont'd)

F. RATES AND CHARGES (Cont'd)

3. Optional Features (Cont'd)

3. Optional Features	USOC	Non Recurring Charge	Term Payment Periods			
			1 Mo.	36 Mos.	60 Mos.	84 Mos.
<u>Remote Access</u>						
- Per System	RAUCX	\$1,550.00	-	-	-	-
- Per 800 Service Number	YYR	175.00	-	-	-	-
- Per Exchange Service Number	YYQ	80.00	-	-	-	-
- Per Authorization Code	YYP	5.00	-	-	-	-
<u>Split Service</u>						
- Provided with initial system installation	EBS	300.00	-	-	-	-
- Provided subsequent to initial installation						
- Per Customer Group composed of:						
- 2 to 199 station lines	EBSAX	400.00	-	-	-	-
- Over 199 lines		1,350.00	-	-	-	-
<u>Station Controlled Conference</u>						
- Per station	EGJ	4.00	-	-	-	-
<u>Station Message Detail Recording (SURD)</u>						
- Per system	CM9	1,575.00	-	-	-	-
- Per customer group	CM901	275.00	-	-	-	-
- Per incoming facility group	CMW	36.00	-	-	-	-
- Per access code	AEK	36.00	-	-	-	-
Per message		.18	-	-	-	-
- Authorization Code	ART	130.00	-	-	-	-
- Per customer group						
- Per authorization code	AJN	5.00	-	-	-	-
- Announcement Requesting Codes						
- Per announcement,	LA2PG	115.00	-	-	-	-
- Per customer group						
- Change or Rearrange Codes						
- Per facility group	RCHD9	36.00	-	-	-	-

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.64.6.

CENTREX-DS (cont'd)**F. RATES AND CHARGES (cont'd)**

3. Optional Features (cont'd)

	USOC	Non-recurring Charge	Term Payment Periods			
			1 Mo.	36 Mos.	60 Mos.	84 Mos.
Tandem Trunking Access^{/1}						
- Initial trunk, per system	48B	\$260.00	-	-	-	-
- Additional trunks, each	48BAX	20.00	-	-	-	-
Tie Line Termination (includes lines used with CCSA, EPSCS, ETN and other special networks)						
- Initial trunk in a trunk group	T1Y	60.00	\$15.00	\$ 9.00	\$ 8.00	\$ 7.00
- Additional trunks in same trunk group, each	T1YAX	20.00	15.00	9.00	8.00	7.00
Trunk Answer From Any Station^{/2}						
- Per arrangement	NTU	35.00	17.00	11.75	11.00	10.75
Uniform Call Distribution						
- Per system	A8A	625.00	-	-	-	-
- Per customer group	A6T	95.00	-	-	-	-
- Per station line	A6Y	4.00	-	-	-	-
- Delay announcement, per announcement ^{/3}	A68	125.00	-	-	-	-
- Music After Delay Announcement Interface, per UCD group ^{/4}	A5K	125.00	15.00	9.00	8.00	7.00
- Night Transfer, per UCD group ^{/4}	A3T	125.00	15.00	9.00	8.00	7.00

/1/ Rates and charges for Local Distribution Channels, Channel Mileage, Channel Mileage Terminations and Signaling Capability are provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers.

/2/ In addition, apply Line Connection charges specified in Tariff M.P.S.C. No. 1.

/3/ Requires Flexible Intercept at rates specified elsewhere in this Guidebook.

(C)

/4/ Requires a 2 wire voice grade Direct Analog Service provided via unregulated Dedicated Communications Service.

CENTREX CO SYSTEMS - No. 5X-BAR /a/

A. CENTREX II SYSTEM

Charges	Nonrecurring <u>Charges</u>	Monthly <u>Rates</u>
1. Attendant Positions		
- Console, each	\$439.23	\$281.23
- Switchboards, Universal Type, each	389.33	283.13
2. Switching Equipment		
- Basic Service	-	793.22/b/
3. Centrex Stations, each		<u>Monthly Rates</u>
- Flat Rate Service		(\$13.02)/b/
- Measured Rate Service		(12.58)/b/
- Minimum monthly station rate applicable is equal to the monthly rate for 150 stations. All stations on a system have the same monthly rate.		
- Line Connection Charges apply to station lines as specified elsewhere in the company's tariffs.		

/a/ Rates in effect for services no longer offered for new installations.

/b/ Amount applicable for Intercommunicating portion of the service.

Material originally appeared in INFORMATION LINK No. 2, Original Sheet S-15.65.2.

AT&T MICHIGAN GUIDEBOOK**PART 20 - Grandfathered Services**
SECTION 5 - Centrex Services**Original Sheet 207****CENTREX CO SYSTEMS - ESS /a/****A. CENTREX I SYSTEM****1. General****2. Charges**

- a Consoles - See attendant positions for Centrex IV system
- b Switching Equipment
 - Basic Service

**Nonrecurring
Charges****Monthly
Rates****-****\$793.22/b/**

/a/ Rates in effect for services no longer offered for new installations.

/b/ Amount applicable for Intercommunicating portion of the service.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.66 and Original Sheet S-15.66.1.

CENTREX CO SYSTEMS - ESS (Cont'd)

B. COMBINED CENTREX SYSTEM

2. Charges

- a. Consoles - Charges as specified for a Centrex IV System are applicable.
- b. Switching Equipment
 - Basic Service, Monthly Rate \$852.23 /a/

/a/ Amount applicable for Intercommunicating portion of the service.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.66.2.

CENTREX CO SYSTEMS - ESS**C. ELECTRONIC TELECOMMUNICATIONS SERVICES - SERVICE PLAN 1****1. Description**

- (a) Existing installations of these systems may be retained by the customer at his present address. Additions, moves and changes will be allowed.
- (b) The Service Plan I consists of electronic switching equipment on Company premises, connected by a maximum of 150 lines to stations on the customer's premises.
- (c) The service enables stations connected to the electronic switching equipment to dial each other and to dial outgoing calls directly. Incoming calls may be dialed directly to any station. Incoming calls to the main listed number for the service are connected to a designated station and then completed to the desired party by operation of the call transfer feature.

2. Basic Features

- (a) The service includes the following specified basic features as defined elsewhere in this Guidebook. (C)
 - Direct Inward Dialing
 - Direct Outward Dialing
 - Identified Outward Toll Dialing
 - Station-to-Station Calling (Intercom)
 - Station Line Hunting
 - Restriction from Incoming and Outgoing Calls
 - Consultation Hold
 - Dial Station Transfer - All Calls
 - Add-on
 - Feature Access (Dial Code Access)
 - TOUCH-TONE Calling

3. Optional Features

- (a) The following optional calling features as described elsewhere in this catalog are available at the monthly rate provided herein. The nonrecurring charges applicable for additions, changes or rearrangements of these features are specified under Centrex Optional Calling Features:
 - Call Hold
 - Call Pickup
 - Individual
 - Directed
 - Call Forwarding
 - Busy Line
 - Don't Answer
 - Variable
 - Call Waiting
 - Terminating
 - Originating
 - Dial
 - Speed Calling - Changeable List
 - 6 Code
 - 30 Code
 - Toll Diversion - Type II
- (b) Other optional features described under Centrex service not specifically listed above are available, where facilities permit, at rates and charges specified therein.

CENTREX CO SYSTEMS - ESS (Cont'd)

C. ELECTRONIC TELECOMMUNICATIONS SERVICES - SERVICE PLAN 1 (Cont'd)

(4) Optional Calling Features, per station line equipped

	<u>USOC</u>	<u>Installation Charge</u>	<u>Monthly Rate</u>
- Call Hold	EAB	\$16.39/a/	\$0.92
- Call Pickup Group	E3N	16.39/a/	0.92
- Individual	E3P	16.39/a/	0.92
- Directed	DMA	16.39/a/	1.18
- Call Forwarding			
- Busy Line	EGG	16.39/a/	0.92
- Don't Answer	E9G	16.39/a/	0.92
- Variable	EAT	16.39/a/	2.19
- Call Waiting			
- Terminating	ESX	16.39/a/	1.46
- Originating	ESZ	16.39/a/	0.92
- Dial	E6C	16.39/a/	0.92
- Speed Calling - Changeable			
- 6 Code List	ESHCG	16.39/a/	1.21
-Access to List	ESTIL	16.39/a/	0.30
- 30 Code List	ESHC3	25.56	6.09
-Access to List	ESFIL	16.39/a/	0.30
- Toll Diversion - Type II	ETA	16.39/a/	0.85

/a/ Not applicable if installed at the same time as the initial installation of the station line. Only one NRC per line applies for one or more features added at the same time or on the same order.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.66.6.

SPECIAL FEATURES /a/

1. Attendant Trunks

- a. Existing installations may be retained by the customer at his present address. These installations will be maintained and additions allowed dependent upon availability of equipment from existing stock within this Company.
- b. Supplemental Attendant Trunks - are trunks to the attendant position from the switching equipment in addition to those provided as a standard feature of the dial system. They are available where facility conditions permit with Centrex I and II Systems. A dialing code other than "O" is assigned, which reduces the station capacity of the system.
- c. Digit Absorbing Attendant Trunks - are designed for console or switchboard attended Centrex Systems. These trunks permit 7 or 10 digit dialing to the attendant from CCSA Access lines.

d. Charges	<u>USOC</u>	<u>Nonrecurring Charges</u>	<u>Monthly Charges</u>
(1) Supplemental Attendant Trunks each	P25	\$16.39	\$7.55
(2) Digit Absorbing Attendant Trunks,			
(a) 1st trunk	ATG	16.39	15.42
(b) Additional trunks, each	AT2	16.39	7.74

2. Arrangement For Toll Billing Information

- a. Existing installations may be retained by the customer at his present address.
- b. Where facility conditions permit, customers may obtain details of originating toll calls to associate such calls with specific stations, departments, projects or other categories by means of station numbers or codes.
- c. Under this arrangement station-to-station calls will be charged for at the rate for operator handled calls.

/a/ Rates in effect for services no longer offered for new installations.

SPECIAL FEATURES (Cont'd)

3. Conference Equipment

- a. Existing installations may be retained by the customer at his present address. These installations will be maintained dependent upon availability of equipment from existing stock within this Company. No moves or changes will be allowed.
- b. Conference Equipment is designed to provide the simultaneous interconnection of several station lines or a Central Office trunk and several station lines through a Centrex System.
- c. Charges

- (1) Conference equipment is furnished at the following charges, subject to transmission limitations.

- (2) Manual Type

	<u>USOC</u>	<u>Monthly Rates</u>
(a) Centrex I and Centrex II Systems equipped with consoles. Five station lines or one Central Office trunk and four station lines capacity.	CEG	\$ 25.47

4. Grouped Calling Services

- a. Existing installations may be retained by the customer at his present address. These installations will be maintained and rearrangements allowed dependent upon availability of equipment from existing stock within this Company.

- b. Description of Features

- (1) Attendant Camp-on and Indication of Camp-on - allows an attendant handled Central Office call to wait on a busy station line and then be automatically connected when the called line becomes available. Distinctive tone is given to the called busy line indicating that a call is waiting.
- (2) Call Forwarding - Busy Line - an arrangement whereby all direct inward dialed calls to busy station lines are transferred to the attendant.
- (3) Call Forwarding - Don't Answer - an arrangement whereby all direct inward dialed calls to station lines reaching a no answer condition are transferred to the attendant.
- (4) Call Forwarding - Variable - permits a station user, by dialing a code, to arrange that incoming calls to his station line will be automatically transferred to any other station line in the same system or to the attendant.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.69.1.

SPECIAL FEATURES (Cont'd)

4. Grouped Calling Services (Cont'd)

b. Description of Features (Cont'd)

- (5) Call Hold - permits a station user to hold a call on the dial station line, by dialing a code, and then to answer or originate another call on the same station.
- (6) Call Pickup - an arrangement whereby station lines of a particular group of lines can pick up incoming calls to other station lines in the same group by dialing a code. All station lines in the group must be equipped for the feature. The maximum number of pickup groups is dependent upon the capacity of the switching equipment.
- (7) Speed Calling - provides an arrangement whereby the attendant and station users may place outgoing Central Office calls to predetermined numbers by using abbreviated codes. The maximum number of such abbreviated codes is dependent on the capacity of the switching equipment.

c. Charges

- (1) Group 1 - the calling features in this group are available with Centrex CU Systems served by 101 ESS equipment.

- (a) The features are only available with TOUCH-TONE calling.
- (b) The grouped features are call pickup, call hold, call forwarding variable and speed calling.
- (c) Charges - the following charges are in addition to the charges for the stations with which the features are associated.

	<u>USOC</u>	Nonrecurring <u>Charge</u>	Monthly Rate
Group 1 features - for each station equipped	EBB	\$16.39/a/	\$4.54
(d) Minimum Monthly Charge, per System - \$114.34			
(e) Initial Contract Period and Termination Charges			

The initial contract period is five years in the same building starting with the date the Group 1 calling features are established. Termination charges are applicable in the event of complete discontinuance of the features prior to the expiration of the contract period and shall be an amount equal to 50% of the minimum monthly revenue for the unexpired portion of the contract relating to Group 1 calling features.

/a/ Not applicable if installed when a station is activated.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.69.2.

SPECIAL FEATURES (Cont'd)

4. Grouped Calling Services (Cont'd)
c. Charges (Cont'd)

(2) Group 2 - The calling features in this group are available with Centrex CO served by 5X-BAR-CTX and Centrex CU Systems served by 101 ESS.

- (a) When Group 2 features are provided, all stations of the Centrex system must be equipped and are charged for accordingly.
- (b) The grouped features are call forwarding, busy line and call forwarding don't answer.
- (c) Charges - The following charges are in addition to the charges for the station with which the features are associated.

	<u>USOC</u>	Nonrecurring <u>Charge</u>	Monthly <u>Rate</u>
Group 2 features - for each station on the system	EBN	\$16.39/a/	\$0.62

(d) Initial Contract Period and Termination Charges

The initial contract period is five years in the same building starting with the date the Group 2 calling features are established. Termination Charges will apply to the number of stations specified in the initial contract for the features. In the event of discontinuance of the Group 2 features prior to the expiration of the contract period, Termination Charges are applicable and shall be an amount equal to 50% of the unbilled charges for the unexpired portion of the contract period based on the rates in effect at the time the contract period began.

(3) Group 3 - The calling features in this group are available with Centrex CU systems served by 101 ESS equipment.

- (a) All stations on the Centrex system must be equipped, when Group 3 features are provided, and are charged for accordingly.
- (b) The grouped features are Attendant Camp-on and Indication of Camp-on.
- (c) Charges - The following charges are in addition to the charges for the stations with which the features are associated.

	<u>USOC</u>	Nonrecurring <u>Charge</u>	Monthly <u>Rate</u>
Group 3 features - for each station on the Centrex system	EBR	\$16.39/a/	\$0.48

The initial contract period is five years starting with the date the features are established. Termination Charges will apply to the number of stations specified in the initial contract for the features. In the event of complete discontinuance of these features prior to the expiration of the contract period, Termination Charges are applicable and shall be an amount equal to 50% of the unbilled charges for the unexpired portion of the contract period based on the rates in effect at the time the contract period began.

/a/ Not applicable if installed when a station is activated.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.69.2 and Original Sheet S-15.69.3.

SPECIAL FEATURES (Cont'd)**5. Arrangements for Night, Sunday and Holiday Service**

- a. Existing installations may be retained by the customer at his present address. These installations will be maintained dependent upon availability of equipment from existing stock within this Company. No additions or changes will be allowed.
- b. Service to Centrex Systems outside the usual business hours - at night and on Sundays and holidays - when an attendant is not regularly on duty, may be arranged for in accordance with any of the plans given below.
- c. Under none of these plans are any special operating or supervisory arrangements provided in the Central Office.
- d. Plan 1 -
 - (1) Under this plan, any of the Centrex station lines may be connected with Central Office trunks by means of proper switchboard arrangements.
 - (2) Under this plan no special listings are permitted. Incoming calls during the period when the attendant is not on duty are distributed at the Central Office in the same manner as during the day hours - that is, connection is established with any trunk the number of which is dialed by the calling party, or, if that number is busy, with the first nonbusy trunk in the same series.
- e. Plan 2 -
 - (1) Under this plan, special numbers are assigned to the customer as required. The Central Office terminals corresponding to those numbers are bridged to trunks in a trunk group, and incoming calls to those numbers are routed over the trunks to station lines as may be connected at the switchboard to those particular trunks. When the station line connected to the trunk is busy, the trunk is also busy.
 - (2) Special call numbers are listed in the Company's Listing Information System as follows:

Jones Transfer Co., 21 North Main St. . . .	624-9376
Note: Nights, Sundays and Holidays, call:	
Office	624-3765
Watchman	624-3675
Garage	624-7665
 - (3) Charges

	<u>USOC</u>	<u>Monthly Rate</u>
(a) For note giving hours of service	NCB	\$77.00
(b) For each extra listing required		Charge for Extra Listing
(c) For each Central Office terminal and associated wiring		(I)
(4) PBX customers having nonlisted nongrouped trunk lines for business during the day may list such trunks for night service without contracting for special multiple jacks. Under this arrangement the only charge to the customer is the charge for any individual listings required under the "Note".		

SPECIAL FEATURES (Cont'd)

6. Dial Station Transfer - All Calls

- a. Existing installations may be retained by the customer at his present address. These installations will be maintained and station lines added to existing installations dependent upon availability of equipment from existing stock within this Company.
- b. Dial Station Transfer - All Calls is available with Centrex II - CU Systems served by 101 ESS.
- c. The Dial Station Transfer - All Calls feature is provided in conjunction with Consultation-Hold and Add-on. The Transfer - All Calls permits the station line station user to transfer an incoming or outgoing call (either an exchange service line or another station line) to another station line on the same system without the assistance of the attendant or to the attendant on the same system.
- d. When this feature is provided with Centrex Systems, it must be applied to all station lines in the system.
- e. Charges
 - (1) The charges for the Dial Station Transfer - All Calls feature are in addition to the charges for the Centrex system lines and other services or features.

	USOC	Monthly Rate
Per working station line	CM3	\$0.48

7. Switching Arrangements

- a. Existing installations may be retained by the customer at his present address. Additions to existing installations will be allowed if additions to the PBX are allowed. These systems will be maintained and additions allowed dependent upon availability of equipment from existing stock within this Company.
- b. Switching arrangements are provided whereby the customer or authorized user may connect two or more separate private line channels so as to form through two-point connections over the channels.
- c. For any single call, up to four two-point channels may be sequentially connected in tandem under control of the user. For more than four two-point connections, if made, the Company makes no representations as to the quality of transmission.

Material originally appeared in INFORMATION LINK NO. 2, Original Sheet S-15.69.5.

SPECIAL FEATURES (cont'd)

7. Switching Arrangements (cont'd)

d. Tandem Dial Switching Arrangement

- (1) The Tandem Dial Switching Arrangement provides for connection of incoming dial selective type channels to other channels and Central Office Lines by dial operation from the calling station.
- (2) This service is available with Centrex CU Systems.
- (3) Charges

	USOC	Nonrecurring Charge	Monthly Rate	Termination Charge Base ^{/1}
Tandem Dial Switching Arrangement, Per Private Line Channel Terminal Equipped	48B	\$16.39	\$4.87	\$98.69

e. Other Switching Arrangements

Other switching arrangements will be furnished where practicable at charges determined separately for each case in accordance with procedures for establishing charges for Special Equipment and Arrangements specified in Tariff M.P.S.C. No. 20R, Part 2, Section 7.

/1/ Reduces 1/60 for each month of service.

SPECIAL FEATURES (cont'd)

8. Station and Tie Line Features

- a. Existing installations may be retained by the customer at his present address. These installations will be maintained and additions allowed dependent upon availability of equipment from existing stock within this Company.
- b. These features are provided, where facility conditions permit, at the following rates which are in addition to the established charges for type of channels and signaling capability features.

c. Station Features

- (1) PBX Manual or Dial Station Feature charges are replaced by off-premises PBX manual or station line charges, with two wire voice grade Direct Analog Services, provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers.
- (2) Dial Station (number) Feature of a Dial Selective Signaling Intercommunicating System now elsewhere in this Guidebook.

(C)

d. Tie Line Features - (4 wire voice grade Direct Analog Service) between PBX Systems.

- (1) Interexchange (interzone) or Interzone Rate Area (in the Detroit Zone) Features
 - (a) Electronic Systems - Tie Line feature charges are as specified for the type of PBX System.
 - (b) Other type PBX Systems
 - i. Dial Type Feature

	USOC	Monthly Rates
- Manual or Dial Selected and Selective One-way, each termination	46N/H74	\$32.09
- Dial Selected and Selective Two-way, each termination	46E/L74	41.95

SPECIAL FEATURES (cont'd)

8. Station and Tie Line Features (cont'd)

d. Tie Line Features - (4 wire voice grade Direct Analog Service) between PBX Systems (cont'd)

(1) Interexchange (interzone) or Interzone Rate Area (in the Detroit Zone) Features (cont'd)

(b) Other type PBX Systems (cont'd)

	USOC	Monthly Rates
--	------	---------------

ii. Automatic or Manual Feature

Automatic Type

- Two-way tie line equipment with machine ringing Central (PLMR) Office equipment and suitable for distances up to 20 miles, each line
- Two-way tie line equipment with other than PLMR, each line

J1A	\$3.30
27L	9.90

Manual Type

- Manual Ringdown signaling (capability)

(c) Signaling capability is applied at the rates and charges provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers. (C) (C)

(2) Intraexchange (intrazone) or Intrazone Rate Area (in the Detroit Zone) Channels -Features

(a) Electronic Systems - Tie Line Feature Charges are as specified for the type of PBX System involved.

(b) Other PBX Systems

	USOC	Monthly Rates
--	------	---------------

i. Dial Type

- Manual or Dial Selected and Selective one way, each terminal

TL4	\$12.35
-----	---------

e. Four wire voice grade Direct Analog Service and Signaling Capability - nonrecurring charges and monthly rates as provided via unregulated Dedicated Communications Service for end users and from Part 21, Special Access, for Telecommunications Providers are applicable. (C) (C)

AMERITECH CENTREX SERVICE

Effective July 5, 2005 no further installations, moves, rearrangements, or changes of any type will be made to ISDN B-Channel or D-Channel Packet Services. Customers of record on July 5, 2005 may continue their service as long as such service remains at the location at which it was being furnished on the aforementioned date. In the event that these services are discontinued at their present location for any reason, they will not be reestablished. The preceding supersedes all of the rules and regulations that follow.

Effective December 1, 2007, the Company will no longer offer the Advanced Custom Calling Feature CLASS Distinctive Ringing on new lines for Centrex customers. A Centrex customer may retain this feature on lines placed in service prior to December 1, 2007 until it moves, makes any changes to its service or choose to upgrade its service.

(N)
|
(N)

A. Description

B. Definitions

C. Terms and Conditions

1. Transmission Specifications

Integrated Services Digital Network (ISDN) architecture, as recommended in the 1984 recommendation of the International Telegraph and Telephone Consultative Committee (CCITT), provides communication capability for transmission of Packet Switched Data (PSD) signals on an incoming, outgoing and intercommunicating basis. Where available, a maximum of eight (8) services are permitted per ISDN line. This maximum is to be inclusive of a maximum of two (2) "B" channel services per ISDN line.

AMERITECH CENTREX SERVICE (cont'd)**D. Features****1. Feature Availability**

N/A - Not Applicable Std.-Standard Opt.-Optional

Voice	Basic	Electronic Key	ISDN
CLASS Distinctive Ringing	Opt.	Opt.	Opt.

ISDN Services

On Demand Packet Switched Data "B" Channel Service	Opt.
Packet Switched Data "B" Channel Service	Opt.
Packet Switched Data "D" Channel Service	Opt.

ISDN Packet Switched Data "B" or "D" Channel

Call Diverting	Std.
Closed User Group (CUG) - Additional Member	Opt.
Closed User Group (CUG) - Individual Design	Opt.
Default Throughput Class Assignment	Std.
Direct Call	Opt.
Fast Select	Std.
Fast Select Acceptance	Std.
Flow Control Parameter Negotiation	Std.
Hunt Group	Opt.
Intercom Calling	Std.
Logical Channels	Std.
Additional Logical Channels	Opt.
Non-Standard Default Flow Control Parameters	Std.
Permanent Virtual Circuit	Opt.
Recognized Private Operating Agency Selection	Std.
Reverse Charging	Std.
Reverse Charging Acceptance	Std.
Standard "B" Packet Parameter Arrangement	Std.
Standard "D" Packet Parameter Arrangement	Std.
Throughput Class Negotiation	Std.
Transit Delay Selection and Indication	Std.

(D)

AMERITECH CENTREX SERVICE (cont'd)

D. Features (cont'd)

2. Line Features

Call Forwarding-Variable

Remote Activation of Call Forwarding provides the capability for a customer to activate and deactivate the call forwarding variable feature for a Centrex line from another telephone either within or outside of the Centrex group.

Class Distinctive Ringing

Allows customers to designate up to ten telephone numbers from which incoming calls will have a distinctive ring. For customers with call waiting, a distinctive call waiting signal will be received if a call from one of the designated telephone numbers is waiting.

3. ISDN Services and Features

SERVICES**On Demand Packet Switched Data "B" Channel Service**

Allows station users to originate or receive X.25 packet data calls over the 64 Kbps "B" channel on demand. This arrangement provides the station user the flexibility to use the "B" channel for circuit switched voice calls, circuit switched data calls, or (on demand) packet data calls.

Packet Switched Data "B" Channel Service

Provides the ability to originate and receive X.25 packet data calls over the 64 Kbps "B" channel.

Packet Switched Data "D" Channel Service

Provides the ability to originate and receive X.25 packet data calls over the 16 Kbps "D" channel.

(D)

CENTREX SERVICE (cont'd)

(C)

D. FEATURES (cont'd)**3. ISDN Services and Features (cont'd)****FEATURES – PACKET****Closed User Group (CUG) Additional Member**

Provides membership for additional CUG members beyond the initial ten included in the design. The available option allowing group members to restrict communications includes the following:

CUG Incoming Access

This facility enables terminals belonging to CUGs to receive incoming calls from terminals in the open part of the network and from terminals belonging to other CUGs with the outgoing access capability.

CUG Outgoing Access

This facility enables terminals belonging to CUGs to make outgoing calls to the open part of the network and to terminals in other CUGs having the incoming capabilities.

CUG with Incoming Selection

This facility may be used on a per virtual call basis to specify the CUG selected for a virtual call.

CUG with Outgoing Selection

This facility may be used on a per virtual call basis to specify the CUG selected for a virtual call and to permit outgoing access.

CENTREX SERVICE (cont'd)

(C)

D. FEATURES (cont'd)**3. ISDN Services and Features (cont'd)****FEATURES – PACKET (cont'd)****Closed User Group (CUG) Individual Design**

An X.25 CUG is a packet mode data arrangement which allows users to build a private sub-network group, using public network resources, that limits communications to members within the group. The CUG allows its member to transmit and receive calls, service type permitting, to and from other members within the group. An individual terminal may be a member of up to 50 CUGs. A terminal having membership to more than one CUG may specify on a subscription basis which of the CUGs is the preferential CUG. The preferential CUG is assumed when no CUG is specified by the user during call setup. The initial design and 10 line memberships are included in the basic group.

There are two main options available:

Group Design Option:**Incoming Calls Barred within CUGs**

This facility permits the subscribed terminals to originate virtual calls to terminals having the same CUG, but precludes the reception of incoming calls from DTEs in the same group.

Outgoing Calls Barred within CUGs

This facility permits the subscribed terminals to receive virtual calls from terminals having the same CUG, but prevents the terminals from originating virtual calls to terminals in the same CUG.

International CUG

This facility allows for inter-network CUGs using international interlock codes across the gateway.

Member Design Option:

CUG members can be designed with CUG incoming Access, CUG outgoing access, CUG with Incoming Selection, and CUG with Outgoing Selection to individual members within a CUG. The above mentioned options available to a member are listed under CUG-Additional Member.

CENTREX SERVICE (cont'd)

(C)

D. FEATURES (cont'd)**3. ISDN Services and Features (cont'd)****FEATURES – PACKET (cont'd)****Default Throughput Class Assignment**

Allows the selection of the default throughput class of 75 Bps, 150 Bps, 300 Bps, 1200 Bps, 4800 Bps, 9600 Bps, 48 Kbps/56 Kbps (largest class less than or equal to user line speed). This default value applies to all virtual calls and permanent virtual circuits.

Direct Call

Enables the user to automatically establish a packet mode data service virtual call to a predetermined destination.

Fast Select

Allows for call setup, transmission of data and call clearing in a single exchange of packets. Each packet may contain up to 128 octets in addition to the call setup information.

Fast Select Acceptance

Permits the user (or terminal) to receive Fast Select. Network Terminal Number is typically associated with packet network lines.

Flow Control Parameter Negotiation

Permits negotiation on a per-call basis of the X.25 packet mode data flow control parameters (packet size and window size of 1 to 7 for each direction of data transfer). This facility applies only to switched virtual calls.

Hunt Group

Allows multiple packet mode data service devices/ports to be reached through a single address. If a member of the hunt group is busy, incoming calls are directed to the next member of the group.

CENTREX SERVICE (cont'd)

(C)

D. FEATURES (cont'd)**3. ISDN Services and Features (cont'd)****FEATURES – PACKET (cont'd)****Logical Channels**

Enables more than one call to be set up on a single Packet Switched Data channel service. A maximum of 32 logical channels are included per "B" channel. One logical channel is included in the Packet Switched Data "D" channel service. Additional logical channels can be provided to allow two or more simultaneous calls to take place. A maximum of 16 standard and/or optional channels can be provided per "D" channel. Logical channels can be arranged as one way incoming, one way outgoing or two way.

Non-Standard Default Flow Control Parameters

Allows the selection of a default packet size and window size instead of a standard default packet/window size. The default value applies to all permanent virtual circuits and those virtual calls at the terminal interface which do not perform per-call flow control parameter (packet/window size) negotiation.

Permanent Virtual Circuit

Provides a permanent logical channel between two packet mode data devices which is always available for the exchange of data without the need for call setup or call clearing.

Recognized Private Operating Agency Selection

Allows a user, on a per call basis, to specify an Inter Exchange Carrier or transit network for inter network packet mode data calls.

Reverse Charging

Allows the user, on a per packet mode data originating call basis, to request that usage charges for the call be billed to the terminating packet number. The terminating party must subscribe to Reverse Charge Acceptance.

Reverse Charging Acceptance

Allows the user to authorize the acceptance of usage billing for all incoming packet mode calls the user receives for which the originator requested reverse charging.

(D)

CENTREX SERVICE (cont'd)

(C)

D. FEATURES (cont'd)**3. ISDN Services and Features (cont'd)****FEATURES – PACKET (cont'd)****Standard "B" Packet Parameter Arrangement**

Provides a pre-provisioned set of packet parameters defined as typical user defaults for ISDN "B" channel packet access.

Standard "D" Packet Parameter Arrangement

Provides a pre-provisioned set of packet parameters defined as typical user defaults for ISDN "D" channel packet access.

Throughput Class Negotiation

Permits negotiation on a per call basis of the throughput class for each session of data transfer associated with a virtual call.

Transit Delay Selection and Indication

Allows the user, on a per call basis, to select and indicate the desired transit delay in the call request packet.

E. VACANT

CENTREX SERVICE (cont'd)

(C)

F. Prices

1. Service Elements

Description /Billing Code/	Non- Recurring Charge	1 Month	Monthly Payment <i>Term Payment Plans</i>		
			36 Months	60 Months	84 Months

Optional Line Features

Advanced Custom Calling Features
(CLASS) Distinctive Ringing
/ZACDC/

\$ 4.00

ISDN Services

Packet Switched Data,
per "B" channel equipped
/BSB3X/

\$100.00 87.00 \$82.00 \$77.00 \$72.00

Packet Switched Data,
per "D" service enabled
/LTQ4X/

20.00 6.50 6.00 5.75 5.50

On Demand Packet
Switched Data "B"
Channel, per "B" channel
/BSB7X/

25.00 25.00 22.50 21.50 20.50

Optional ISDN Packet Features

Provided on a per feature basis

Closed User Group
Individual Design /GXM/
Additional Member /GXW/
(Requires Individual Design)

25.00 20.00

10.00 1.00

Direct Call /GXB/

10.00 1.00

CENTREX SERVICE (cont'd)

(C)

F. PRICES (cont'd)**1. Service Elements (cont'd)**

Description /Billing Code/	Non- Recurring Charge	1 Month	Monthly Payment Term Payment Plans		
			36 Months	60 Months	84 Months
<u>Optional ISDN Packet Features</u> (cont'd)					
Provided on a per feature basis					
Logical Channels, greater than 32 for "B" Channel Packet /NW9AL/ greater than 8 for "D" Channel Packet /NW9AL/	\$10.00 10.00	\$ 1.00 1.00			
Permanent Virtual Circuit /GXP/	10.00	10.00			

CENTREX SERVICE (cont'd)

(C)

Effective July 1, 2002, 84-Month Term Payment Plans will no longer be available for PRI Connection Service. Current PRI Connection customers may continue to retain their existing service as is at their current address until the 84-month contract term expires. Any customer requested changes to the existing Service will require the customer to select a new contract term payment plan or the month-to-month option at the then current tariff rates. The Company will not impose termination liability to those customers required to make a contract term change.

Upon completion of the 84-month TPP term, customers may continue receiving the Service at the then-current rates under any available payment plan. If the customer does not select a new payment plan and does not request discontinuance of the Service, the month-to-month tariff rates in effect at such time will automatically apply.

The preceding supersedes all of the rules and regulations that follow.

F. PRICES (cont'd)**1. Service Elements**

Description /Billing Code/	Monthly Payment Term Payment Plans	84 Months
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Private Facility Access Termination (cont'd)Trunk Side Access

PRI Connection (24 channel digital termination) each arrangement /DUG1X/	\$420.00
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Optional Features

“D” Channel Backup, each /ZPBXD/	105.00
Network Ring Again, per arrangement /ZRA/	45.00
Network Name Display, per arrangement /ZNN/	45.00