



American Telephone and  
Telegraph Company  
295 North Maple Avenue  
Basking Ridge, N. J. 07920  
Phone (201) 221-2000

May 5, 1977

Mr. G. L. Daum  
Illinois Bell Telephone Co.  
225 W Randolph Street HQ 9G  
Chicago, Ill 60606

Dear Mr. Daum:

Attached is information on the WATS restructuring that is planned for August 1, 1977. The date is subject to change. You will be notified of changes as soon as possible but plans must be based on the 8/1 effective date.

General of Hawaii is filing at about the same time for both Inward and Outward W.A.T.S. R.C.A. in Alaska is apparently not going to make any similar type offering at this time.

Please note that when our outward WATS band 5 service becomes effective and any serving offices require 6D screening to 809, it will be necessary for you to work closely with the Dial Administrators (or whoever establishes the screening in the serving offices for WATS service bands). You must provide them with the acceptable 809 codes for band 5 service and those that are unacceptable, such as those in Bermuda and the Bahamas.

Questions should be directed to me on 201 221-4759.

W. B. Plossl  
Supervisor - Network Trunk Administration

This document has been prepared to provide the Operating Telephone Companies (OTC) Network Operations Departments with the information needed to plan and implement the new Wide Area Telecommunications Service (WATS) tariff.

### General

On April 29, 1977 a new tariff for WATS was filed with the F.C.C. with an effective date of August 1, 1977. This new tariff separates Outward WATS from Inward WATS by establishing individual rate structures and rate levels which more closely reflect the cost of providing each service. It combines the Full Business Day and Measured Time classes of service. Each Inward WATS service group will be required to include a minimum of two access lines in place of the present provision of two terminations for the first Inward WATS access line in a service group. There is a decrease in the number of service areas for the contiguous states from 5 to 3 by combining present service areas 2, 3 and 4. WATS will be extended to Alaska, Hawaii, by introducing service area A4. Puerto Rico and the U.S. Virgin Islands will be service area A5, but the effective date for A5 is not known at this time. For planning purposes band A5 is included and treated as if it has the same effective date. Service areas A5 for Outward WATS will ultimately require 6 digit translation. Initially these calls will require post-screening by the Comptrollers on those calls originating in an electromechanical office. Six digit translation is recommended in electronic switching systems.

For clarification in this document any time a WATS band is referred to by a number only, i.e., 1, 2, 3, 4 or 5, the existing configuration is being discussed. When the new WATS bands are being referred to the number will be preceded by the letter A, i.e., A1, A2, A3, A4 and A5. Because there are only record changes involved with converting band 1 to A1, they are not discussed in detail. When all work is completed band 1 will be band A1; bands 2, 3 and 4 will be band A2; band 5 will be band A3; codes for Alaska and Hawaii will be in band A4 and codes for Puerto Rico and the U.S. Virgin Islands will be in band A5.

The following brief statements have been prepared to provide planning information concerning the general provisions which are included in the filing. Since the overall implementation of the new tariff is interdepartmental in nature, other departments have or will be providing more specific information within their respective areas of responsibility.

The following are general highlights of the tariff changes:

1. Introduces a tapered Outward WATS rate schedule.
2. Introduces a tapered Inward WATS rate schedule.

3. Establishes interim rate schedules for Outward WATS and Inward WATS for a period of six months.
4. Establishes a minimum period charge for each Inward WATS service group.
5. Establishes regulations to provide for hourly usage charges for Inward WATS when the minimum period charge is not applicable.
6. Establishes a monthly access line charge for each Inward WATS access line.
7. Establishes a multi-element rate schedule for non-recurring charges, installation, move, suspension of Outward service, conversions, etc.
8. Introduces regulations and charges for access line extension stations located in different buildings within the same exchange.
9. Establishes the multiple private line interexchange channel (MPL IXC) rate schedule for category "A" and category "B" rate centers where access line extension stations are located in different exchanges.
10. Discontinues regulations and charges for suspension of Inward WATS.
11. Establishes non-recurring charges in addition to the monthly charge for suspension of Outward WATS.
12. Establishes regulations to provide for the automatic suspension of extension stations from service upon suspension of an Outward WATS access line.
13. Establishes regulations for service group billing of access lines.
14. Establishes regulations to apply charges based on the average use of the access line within a service group.
15. Changes the interruption allowance to recognize the difference between the outward WATS rate schedule and Inward WATS rate schedule.
16. Establishes regulations to provide for billing from the first thru the last day of the regular billing cycle.
17. Establishes regulations for a minimum of two access lines for each Inward WATS service group.

18. Changes the regulations for determination of charges for fractional periods.
19. Changes the regulations for payment of charges to recognize the billing of Inward WATS minimum period or hourly usage in arrears.
20. Establishes regulations to provide for a standard telephone jack termination for a WATS access line.
21. Establishes regulations to provide for a cross-reference for charges, as set forth in Exchange Service Tariffs, for station terminal equipment and communications systems.
22. Provides a cross-reference for applying the Maintenance of Service Charge as set forth in the Exchange Service Tariffs of the local operating Telephone Company.
23. Delays the effective date of the multi-element non-recurring charges for installations, moves and conversions from Aug. 1 to Nov. 1, 1977.
24. Changes the definition of "Exchange" to indicate that a rate center will be considered an exchange, except in zoned cities.
  - changes the definition of "Service Group".
  - changes the definition of "Station".
  - establishes a definition of the term "Rate State".
  - establishes a definition of the term "Conversion".
  - establishes a definition of the term "Building".
  - establishes a definition of the term "United States".
  - changes in text for clarification purposes.

This undertaking will require maximum interdepartmental cooperation and coordination. An interdepartmental General Letter, to be issued later, will recommend that an interdepartmental committee be formed to handle this conversion. The problems of recent change capacity, manpower, number group auxiliary relays, etc. must be addressed on an order by order basis. This information will be needed by the committee to establish a schedule of work to be performed. The disconnects can be worked on the effective date but any other reconfiguration of lines and numbers must be handled on an ability to perform basis. There must be a clear understanding by all members of the committee of the need to provide and accept realistic information. The service orders will be in three

general categories, i.e., a new universal service order code (USOC); a new billing number and USOC; a new billing number, a new USOC and work to be done in central office and/or on the customer's premise. Work may begin on these orders 30 days prior to the effective date and should be completed no later than 30 days after the effective date. It is recommended that all of the first two categories be completed prior to the effective date. We recognize that all of the third category will not be completed prior to the effective date. Any service order scheduled to complete after the effective date should be separated into two service orders issued at the same time. The first order should carry a due date of the effective date of the tariff and should change the old USOC's to the new and change the billing number if required. The second order will authorize the actual physical work and have a due date within 30 days after the effective date of the tariff.

The following are general procedures for implementing the new service in each type switching system. They are designed to address the known problems that may be encountered in that switching system. Unique office layouts and capacities for each individual application must be completely studied and appropriate detail plans developed.

#### Inward WATS

##### Tandem Screening Office

Routing orders for tandem or through offices will be issued first. These will provide for the duplication in band A2 (082) of all codes that exist in bands 2, 3 and 4 (082, 083 and 084). They will also provide for duplication in band A3 (083) of all codes in band 5 (085). For example, 085 + 214 + 4D is now converted to 145 + 4D, but under the new procedure it will convert from 083 + 241 + 4D to 143 + 4D ~~and 085 + 241 + 4D to 143 + 4D~~. It should be noted that during the restructuring period these offices may be receiving both 085 and 083 from various originating screening offices on calls that will terminate at the same location. The new A4 and A5 will be established with all codes in bands 4 and 5 duplicated. The new codes for Alaska and Hawaii will be placed in A4. Codes for Puerto Rico and U.S. Virgin Island will be placed in A5.

This work should be completed in the interval 21 to 15 (inclusive) days prior to the effective date of the tariff. Beginning on the effective date of the tariff and completing by the 7th day after, all screening and conversion information on bands 2, 3, 4 and 5 will be removed. Only that information required for bands A1, A2, A3, A4 and A5 will remain.

### Originating Screening Office

Routing orders for the originating screening offices will be issued to convert bands 2, 3 and 4 into band A2. Band 5 will convert to A3. When the work is completed, only digits for bands A1, A2, A3 and A4 will be transmitted to terminating and/or tandem screening offices. This work should be completed during the interval of 14 to 1 day (inclusive) prior to the effective date of the tariff.

### Terminating Screening Office

Beginning on the effective date of the tariff and completing by the 7th day after, routing orders will direct the removal of bands 4 and 5 screening from the terminating screening offices. Only the screening for bands A1, A2 and A3 will remain. During this same period the screening for the new bands A4 and A5 will be placed in the switching machine. In any office where service for the new bands A4 and A5 have an effective date that is in this time period, local arrangements must be made to expedite the new configuration. In no case can the effective date of an order for A4 or A5 be prior to the effective date of the tariff.

### Local Offices

New tens blocks of numbers may be required for each of the new bands A4 and A5. This requirement should be determined for each office. Our investigation has indicated that the Inward WATS number will not be changed except in the case of customer requested change. There must be a minimum of two access lines for each Inward WATS service group.

### Inward WATS Offering in Hawaii

This section deals with our responsibilities (48 contiguous States) in implementing the offering that General of Hawaii is expected to make coincident with our own offering for the 8/01/77 effective date.

Code 800 367 has been assigned to Hawaii. All originating screening offices will direct these calls to Honolulu. In all cases on either direct or tandem calls, the zonal or band digit will be "4". We do not yet know the routing code that Honolulu will request for the TSO, but Section 2 of the TRG will be updated soon to reflect this new Inward WATS NXX and routing information.

Outward WATS

It is extremely important that all changes in screening and routing be coordinated with the Comptrollers.

Number 5 Crossbar Offices

The procedure for accomplishing the objective in No. 5 crossbar will be to change the class of service by vertical file for bands 2 and 3 to band 4. This should be started and completed as near to (preceding) the effective date of the tariff as is reasonable. By doing the above, band 1 becomes band A1; bands 2, 3 and 4 become band A2 and band 5 becomes A3. New bands A4 and A5 may be established any time prior to the effective date. In those offices that may be short of screening relays bands A4 and A5 may reuse those screening relays presently being used to screen bands 2 and 3. It should be noted again that post screening by the Comptrollers will be required on calls originating from electromechanical offices destined for band A5.

In offices providing individual station billing on Centrex CO by using combinations of class-of-call index six (CCI #6) and a message billing index (MBI) to indicate the band number a suggested method of implementation is as follows:

<u>MBI</u>	<u>Assumed Band Assignments</u>		
	<u>Present</u>	<u>Interim</u>	<u>Final</u>
1	1MT	A1	A1
2	2MT	A2	A2
3	3MT	A2	A4
4	4MT	A2	A5
5	5MT	A3	A3
6	1FBD	A1	
7	2FBD	A2	
8	3FBD	A2	
9	4FBD	A2	
0	5FBD	A3	

On the effective date of the tariff the Comptrollers can program their computer to recognize:

- MBI 1 and 6 as band A1
- MBI 2, 3, 4, 7, 8, 9 as band A2
- MBI 5 and 0 as band A3

The office can be reconfigured to combine the full and measured time routes into one group. The MBI assignments can then be changed to:

- MBI 1 as band A1
- MBI 2 as band A2

MBI 5 as band A3

The Comptrollers should be notified of this arrangement so their computer can be reprogrammed to the final band assignment. When they have completed the work the office wiring can be completed to provide MBI 3 as band A4 and MBI 4 as band A5.

Number 2 Electronic Switching System

The new service in No. 2 ESS will require that bands 2 and 3 be changed to band 4 on an individual line bases. This should be started and completed before the effective date of the tariff. This work will provide for the bands A1, A2 and A3. To provide for new line class codes along with new charts and columns, it will be necessary to have an Office Data Assembler (ODA) Run. When individual station billing is required, entry code 25 along with a WATS band number identifier is used to provide the Comptroller with the information required to bill the call. In an ADNet message dated April 21, 1977, we recommended a certain configuration of the WATS band number identifier. On the effective date of the tariff, only A1, A2 and A3 with WATS band number identifiers 1, 4 and 5 will be in the machine. When the ODA run to establish bands A4 and A5 is made, the following assignments should be made.

<u>Band</u>	<u>WATS Band No. Identifier</u>	
	<u>Present</u>	<u>Proposed</u>
A1	1	11
A2	4	12
A3	5	13
A4	-	14
A5	-	15

The Comptrollers should reprogram the billing computer to recognize the combination of Entry Code 25 and the WATS band number identifier on each of these steps.

Six digit translation is recommended for Service Area A5.

Number 1 Electronic Switching Systems

New Universal Service Order Codes (USCO's) have been assigned for all interstate WATS access line and extension stations. This provides an excellent opportunity to establish new line class codes (LCC) for bands A1 through A5. New rate and route charts (ESS Form 1304) should be established for bands A4 and A5 at the same time the LCC's are being built. Those offices with customers using the individual station billing feature will have to establish additional rate and route charts

using AMA entry code 025 and WATS Band Indicators of 14 and 15 (key punch columns 49 and 50) for bands A4 and A5 respectively. The LCC and rate and route chart establishment work may commence immediately and should be completed 30 days prior to the effective date.

The next step is to change existing rate and route charts screening in bands 2 and 3 to equal band 4. The individual station billing charts should also be covered in this step. Complete this step within 11 days preceding the effective date. This 11 day time window is to allow for card writing operations; however, effort should be made to activate this step as close to the effective date as possible.

Six digit translation is recommended for Service Area A5.

Next, in those offices offering the individual station billing feature which uses the combination of Entry Code 25 and the WATS Band Number identifier (key punch columns 44 and 50 on ESS Form 1304) the following assignments are applicable:

<u>WATS Band Identifier</u>	<u>Present Assignment</u>	<u>New Assignment</u>
00	Intrastate	Intrastate
01-05	Interstate Bands 1-5	Unassigned
06	Future Interstate Band 6	Future Interstate Band 6
07	Future Interstate Band 7	Future Interstate Band 7
08-09	Intrastate	Intrastate
10	Unassigned	Unassigned
11-15	Unassigned	Interstate Bands A1-A5

#### Outward WATS Numbering

When the new tariff becomes effective, Full Business Day and Measured Time Service will be combined into a single tapered rate schedule. The full and measured indicator (0/1 in the first digit of the standard WATS number) no longer will be required. However, arrangements have been made with Comptrollers to accept both the 0/1 in the first digit for an interim period after the effective date of the tariff. As service orders are worked, the first digit identifier can be changed to the digit 1 which is the new recommended first digit.

As service orders are worked, band number identifier (3rd digit of the standard WATS number) should be changed to identify the new bands.

Line numbers (last 4 digits) can remain the same unless conflicts result from band compression or the establishment of the new bands A4 and A5. If conflicts occur, then number changes will be required to resolve the conflicts.

Specific questions may be directed to the following individuals:

Network Administration

No. 5 Crossbar	Mac McRight	201 221-4798
No. 1 ESS	Wendie Morris	201 221-4796
No. 2 ESS	Stan Denison	201 221-4797
Routing	Bill Plossl	201 221-4759

Network Maintenance

No. 5 Crossbar	Joe Ruscigno	201 221-4734
No. 1 ESS	Dave Hartt	201 221-4635
No. 2 ESS	Joe Bodnar	201 221-4707

<u>Network Planning</u>	Ray Cooper	201 221-4718
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<u>Network Design</u>	Bruce Fetz	201 221-4681
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D. E. Guinn  
Assistant Vice President -  
Network Operations