

BellSouth Telecommunications, Inc.
Kentucky Public Service Commission
Case No. 2003-00379
AT&T's 2nd Request for Production
November 24, 2003
Item No. 32
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REQUEST: Provide all documents, methods and procedures, work instructions or training material for BellSouth's Coordinated Cut Scheduling System ("CCSS").

RESPONSE: Information responsive to this request is available at the following pages:

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Kentucky Public Service Commission
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**ATTACHMENT TO REQUEST FOR PRODUCTION,
ITEM NO. 32**

CCSS Procedures

Network Wholesale Operations

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August, 1999 - September 23, 2003

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Anjelynn Roney
205-714-0195

Introduction / Revision History

This document presents the purpose, scope, responsibilities and procedures associated with the successful use of the Coordinated Cut Scheduling System (CCSS) when conducting UNE Provisioning and Maintenance.

Modified document to add NOTE in section 6.1/2nd bullet

TABLE A Revision History

Chapter	Action Request #	Date/Issue	Description	Requested By / Made By
Starting or Editing a cut	N/A	September 23, 2003/7	Modified to add in bold: by 10:30 am on the business day prior to the cut	Anjelynn Roney/
Editing a coordinated cut	AR 9934	April 11, 2003 / 6a	Modified document to add NOTE in section 6.1/2nd bullet	Anjelynn Roney / posted by D. Mann
Editing a Coordinated Cut	N / A	March 18, 2003 / 6	Modified document to reflect changes made to the CCSS System. "CLEC notified of IDLC by 10:30am on Pre-DD call.	Anjelynn Roney / posted by M. Laney
Editing a Coordinated Cut	AR 8300	January 3, 2003 / 5	Added that the CLEC should be notified within 5 minutes of the Cut complete. I also added to call after the entire cut has	Tommy Holt 205-714-0082 / Posted by M. Laney

Chapter	Action Request #	Date/Issue	Description	Requested By / Made By
			been performed.	
Entire document	8379	December 18, 2002 / 4a	Modified document to reflect changes made to the CCSS System.	James Jobes / Anjelynn Roney / Posted by M. Laney
Starting a Coordinated Cut	AR# 7150	April 22, 2002 / 4	para. 5b Removed verbiage about orders containing DFDT (dfdt on LSR) per Frank Bryan.	Frank Bryan / Mona Hill
Starting a Coordinated Cut	5002	November 2, 2001 / 3e	Added clarification statement for CLEC Conflict Acceptance para 5(f)	Frank Bryan / Debra Phifer
7.1	4636	November 1, 2001 / 3d	Removed para 5f, instructions for documenting Non-Coordinated (SL1/ENDI) orders.	---
7.1	4343	November 1, 2001 / 3c	Repaired link to BSP 660-225-102BT, Standard Disposition Code.	---
Starting a Coordinated Cut	N/A	June 18, 2001 / 3b	updated conflict MFC to add link to BSP 660 225 102BT	---
All	N/A	May 24, 2001 / 3a	revision of BSP	---
All	N/A	May 18, 2001 / 3	reviewed document and added BSP to conflict MFC's	---
All	N/A	September 28, 2000 / 2a	General update and revision	---
1.7	1702	January, 2000 / 2	Update to reflect new GUI interface. (Wayne Lloyd)	---
All	N/A	August, 1999 / 1	New document	---

1. CCSS Procedures

1.1 Purpose / Scope

The purpose of this document is to present the following CCSS procedures that are used for CWINS Provisioning and Maintenance: Entering Your CUID and Password, Using the Main Menu, Editing Coordinated Cuts, Viewing Coordinated Cuts, and Modifying a User's Account.

2. Responsibilities

2.1 Responsibilities

This document describes the CCSS procedures to be used by the Electronic Technician (ET) and/or Maintenance Administrator (MA) when required during CWINS Provisioning and Maintenance.

3. Contents

3.1 Contents

You may jump to the topic of your choice by clicking on any of the items in the following list:

- [Entering Your CUID and Password](#)
- [Using the Main Menu](#)
- [Editing a Coordinated Cut](#)
- [Viewing Coordinated Cuts](#)
- [Modifying a User's Account](#)

4. Entering Your CUID and Password

4.1 Entering Your CUID and Password

When you first load the Gateway screen (either through the ICSOPS home page at <http://icsops.bst.bls.com> or directly at http://90.14.153.151/cgi-bin/gateway/gateway_main.cgi), you will see this:

FIGURE A Example

Click on Gateway to Restricted Applications. You will then be presented a login dialog box as in the figure below.

FIGURE B Login

Begin by typing your CUID and password into the space provided and press enter, or the "Submit" button. If this is your first login attempt, your password will be your CUID in lowercase

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 letters. Upon successful login you will see the Interconnections Service Gateway page as in the figure below. Select CCSS to go to main menu. If your CUID was not found please verify that it was entered correctly.

FIGURE C Example

5. Using the Main Menu

5.1 Using the Main Menu

Once you have successfully logged into the system you should see a screen similar to the one below. Please choose the application you wish to use or click "EXIT" to return to the Interconnection Services Gateway.

FIGURE D Main Menu

6. Editing a Coordinated Cut

6.1 Editing a Coordinated Cut

Press the "Edit A Cut" button on the Main Screen (shown below): Note that each time you push the "Edit A Cut" button, a new window opens. This allows you to have multiple windows open at once for starting multiple cuts.

FIGURE E Main Screen

You will then be presented with the Edit New Cut screen (shown below). This basic screen is used to update information on any cuts in the database. Your first step with any cut is to find it in the database, which is accomplished by:

- Typing the order number (uppercase or lowercase) into the text field below the word "Order"; and
- Pressing Enter or the "Search" button at the top-left of the window.

FIGURE F Edit New Cut Screen

When you have entered a correct order number, the screen will update with the cut's information, as shown below in the standard cut screen figure.

FIGURE G Standard Cut Screen

Now that you have a valid cut to work, there are several things to note:

There are several buttons at the top of the screen. They consist of:

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- The "Search" button, already mentioned above.
- The "Save" button, which you can use to update most information about the cut. Note that the program automatically saves when you start or stop a cut.
- The "Abort" button, which will clear the CCSS screen of all data in the "event fields".
- The "New Cut" button, which opens a new window so you can work on several cuts at once.
- The "Close" button, which closes the window for you.

Much of the information is already gathered for you from WFA and therefore does not normally need to be changed.

If you are done with a cut and want to work on another cut in the same window, type the order number in the text field below "Order", and press "Search".

The "Scheduled Time" field normally starts out blank. For measurement purposes, this field **must** be filled before any information about a cut can be saved. Note that the scheduled time is entered in a 24-hour format in the same TIME ZONE as the CWINS Technician making the entry. For a

Non-Time Specific Cut, enter "17:00" for the scheduled time. The CCSS system will change that time later to match the "Cut Start Time". Adjustments to time entries for a customer's order actually located in another Time Zone should be made to **match the Time Zone of the CWINS Technician**. Time for the all events are seen in hours:minutes.

The CWINS Technician should manually enter the appropriate "Event" data (date, time, entered by) or select the "Now" button. Selecting "Now" button will log the current time of the action and save any changes you made to the cut.

You may be prompted to provide the appropriate standard Missed Function Code (MFC) jeopardy code related to "Cut Timeliness MFC" or "Cut Duration MFC" when limits for timeliness and duration have been exceeded. BellSouth limits for Cut Timeliness are within 15 minutes of a **Time Specific** scheduled cut. Limits for Cut Duration are 15 minutes per circuit or line on the order.

When doing a multiple line cut, you should advise the CLEC that you will be performing the CUT then contacting them once the Cut is complete. This also pertains to sequential CUT's.

You should always contact the CLEC within five minutes once the "CUT" has been completed.

To work on a particular cut involving IDLC, simply follow the steps below:

- For the "Type of Digital Loop Carrier" drop-down box, the choices are Integrated and None. The CWINS technician should select Integrated if ANY of the circuits on the order has "PGSC I" in the F1 facility portion of the Assignment Section of the order as displayed on the OSSIMG or DOSOI screens. Therefore, on multi-line orders, Integrated should be selected if one or more lines involve IDLC. Integrated should be selected if cutting off or to IDLC.

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The technician will need to contact the CLEC (**by 10:30 am on the business day prior to the cut**) on all orders involving IDLC. If this contact is made, “YES” should be selected on the “CLEC” Notified of IDLC by 10:30am on Pre-DD call. If the contact is not made, “NO” should be selected.

Note: If contacting the CLEC results in having to leave a voicemail message, ensure part of that message includes the fact that the loop(s) will be going on or coming off integrated facilities. An OSSLOG note stating this is sufficient to consider the CLEC notified.

In Florida and Tennessee, if the cut involves IDLC and we notify the CLEC(**by 10:30am on the business day prior to the cut**), BellSouth is allowed a (4) hour window around the Scheduled Start Time (2 hours before and 2 hours after the time) for starting the cut, rather than the usual 30 minute window. This additional time is allowed for the increased complexity of Side-Door/Hair-Pin processes, or for the time required to cut the facility off IDLC. The intention is to allow this additional time on the due date to prevent an additional dispatch on the day prior to the cut for the purpose of cutting the facility to/off IDLC. While the (4) hour window is allowed by the PSC for measurement purposes, it is still our intent to cutover the circuits as close as possible to the Scheduled Time. *Note: this is for cut start time only, duration is still 15 minutes per line.

- Since the (4) hour window for IDLC is applicable in Florida and Tennessee, the CCSS program has not been modified to allow for a “Cut Start” window greater than (30 minutes). Therefore, if all conditions described above have been met and the cut has been started within the allowable (4) hour window, a “Cut timeliness MFC of “X45” should be used. PSC and FCC reporting procedures will eliminate these “X45” misses in Florida since they are not really a miss. If the cut is not started within the (4) hour window, use the appropriate MFC.
- Along with the “YES” or “NO” designation in CCSS for “CLEC” Notified of IDLC by 10:30am on Pre-DD Call, an entry will also be required in the WFA OSSLOG.

To work on a particular cut, simply follow the steps below:

First, verify the scheduled time on the SOCS service order for OCOSL and by reviewing any WFA-OSSLOG entries regarding the Scheduled Time (remember to use a 24-hour format matching the time zone of the CWINS technician). This **must** be done before you can save any information about the cut.

- The CCSS System will identify the “Work Type” of your order based on information provided by other processing systems (SOCS and WFA). If this is an order for a time specific cut, the SOCS order will have an “OCOSL” entry in the S&E section of the order, usually one or two lines before the “Remarks section.”
- The “Pre-DD Call” field is defined as the call the CWINS technician must make to the CLEC 24 to 48 hours prior to the scheduled due date to confirm the planned due date and time of a scheduled cut. This is the same information that should be entered in the WFA-OSSLOG.
- On the DD, if a call is made to the CLEC prior to the start of the cut, enter that time in the “DD Pre-Conversion Contact Time” or select the “NOW” button at the time of the call. This could include calls made to the CLEC several hours prior to the cut time or a call made shortly before the cut begins. This could include calls made to the CLEC several hours prior to the cut time on due date or a call made shortly before the cut begins. The program will save any information you have entered and update the screen.

Once BellSouth and the CLEC are ready, use the appropriate “Events Field” to mark the events in working the cut. “Cut Started” is used when the central office technician begins their work following the pre-cut certification procedures. Post the “Cut Completed” when good dial tone or lines have been provided to the CLEC. (Note: Time specific orders with an OCOSL and time entry on the SOCS order have a FIRM scheduled cut time. NON-time specific orders (without these entries) do not have a 'firm' scheduled cut time. The CCSS system will automatically adjust the scheduled time on NON-time specific orders to match the cut start time.)

Note: Occasionally, the “Work Type” in CCSS will be incorrect. This usually occurs because a subsequent order issued by the LCSC has not completed the mechanized update process from SOCS to WFA to CCSS. This process can take up to 3 days. When the CWINS technician identifies the wrong “Work Type”, the technician should document the cut times, contacts, etc. in the WFA OSSLOG and state that the “Work Type” is in error. On the following day, the technician should check CCSS to determine if the “Work Type” has been corrected by the systems. If so, the technician should enter the appropriate times, dates, contacts, and MFCs in CCSS, which were documented in the WFA OSSLOG. If after 3 days, CCSS still contains the wrong “Work Type,” the order should be referred to a supervisor for referral to the CWINS staff.

- “CLEC Acceptance Conflict” is used if the CLEC reports a trouble condition on the circuit after the cut has been completed and turned over to the CLEC for testing. Refer to “Supporting documentation” in para i, below for location of Disposition Codes when reporting the CLEC Conflict MFC.
- “CLEC Acceptance” is the date/time the CLEC either accepts the order while the technician has them on line or calls back to accept the order. It is the same information that should be entered into the WFA-OSSLOG.
- “Default Acceptance” is selected when the CLEC fails to call back to accept the “hot cut” as “good” within the designated period of time outlined in your procedure.

Supporting documentation includes:

- "CLEC billed for after-hours cut?"— if the CLEC was billed for an after-hours cut, mark the checkbox.
- “Cut Timeliness MFC” — Standard Missed Function Code required when the “Start Cut” time exceeds plus or minus 15 minutes from the “Scheduled Cut Time” on a time specific cut, only.
- “Cut Duration MFC” —Standard Missed Function Code required when the duration of the cut exceeds limits of 15 minutes per circuit or item on an order.

“CLEC Conflict MFC”—Standard Disposition Code required when there is a conflict during acceptance. [BSP 660 225 102BT](#) **Section 3.0**

- “Auto Jeopardy Codes”—These are Missed Function Codes that are automatically copied to CCSS from WFA and usually indicate conditions that jeopardize the completion of the order.
- “Test Results” — Test data similar to that entered on the WFA OSSCN screen. This field is not required in CCSS since it does not automatically populate in WFA.
- “Comments”— Any additional information about the cut. This field is not required in CCSS since it does not automatically populate in WFA.
- “Contact”—The name and telephone number of the CLEC technician involved during Pre-DD call, DD Pre-conversion call, CLEC Notification and CLEC

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 Acceptance. This information is automatically transferred to WFA via a Taskmate program.

- XDSL-CKT— For XDSL type circuits select the proper cooperative testing results (LINK GU-TXND-001)

Remember to press "Save" if you make any changes.

The cut should now be complete and will look similar to the one shown below:

FIGURE H Completed Cut

If the cut is cancelled while your are working on the cut, use the "Abort Cut" action button to clear all information you have entered so far. The program will request a confirmation before clearing the data. If you made a mistake on the cut, and need a date **changed**. Simply make that change. It is not necessary to "abort" the cut.

At this point, you can press "Close" to close out the window. Alternately, you may enter a new order number in the text field below "Order" and press "Search" to start a new cut in the same window.

7. Viewing Coordinated Cuts—REPORTS

7.1 Viewing Coordinated Cuts—REPORTS

Press "View Cuts" on the main screen shown below:

FIGURE I Main Screen

You will then see the screen shown below:

FIGURE J Example

At this screen, there are several options available to you:

There is a button labeled "Return" at the top-left of the screen. Pressing this button will take you back to the CCSS Main Page.

The box in the middle of the screen is where you can choose which report to view. The reports are:

- Cuts Due Today
- Overdue Cuts
- Incomplete Cuts
- Rebate Report
- Valid 'N' Order Report
- Usage Report
- Raw Data Dump
- Reconciliation Report
- XDSL Results

The checkbox close to the bottom of the screen allows you to view the report in a "comma delimited" format, which can then be saved and uploaded into a spreadsheet program such as Excel or Lotus 1-2-3. If the report launches information from Quick View Plus as oppose to EXCEL, simply follow these steps:

- Click the Window's Start key.
- Click "Programs"
- Select "Quick View Plus"
- Select "View a file"

Note: When the Quick View program appears select "view" on the tool bar and configure Quick View Plus. On application tab, be sure that there is no check mark next to NetScape Navigator or MicroSoft Internet. If one does exist, remove to "desirable integration." Then select "apply" and then click OK. You must close Quick View Plus.

- Press the "Generate Report" button at the bottom of the screen when you are ready to view the report specified report.

To view a report, simply follow these steps:

- First, decide if you want to view a "comma delimited" report that can be uploaded into a spreadsheet such as Excel or Lotus 1-2-3. If you wish, simply check the box marked "Click here for a spreadsheet-compatible report".
- Then, select which of the report types you want to view - and press the appropriate button next to your selection.
- If appropriate, enter the date range in the "from" and "to" fields.
- Some reports can be further narrowed by the CWINS center. Simply select the CWINS center in the selection box to the right of the report.
- Finally, press the "Generate Report" button and a report similar to the following one will appear:

FIGURE K CCSS Report

If you wish to print this report, simply press the "Print" button at the top of the screen.

8. Modifying a User's Account

8.1 Modifying a User's Account

Press the "Modify Your Account" button on the Main Screen.

FIGURE L Main Screen

You will then be presented with the following screen:

FIGURE M Edit User Information Screen

Type in the CUID of the user you wish to add or modify and press the "Update Account" button. The screen will then fill in with the user's information (or have blank fields if you are adding a new user).

9. Corrective Action / Feedback**9.1 Corrective Action / Feedback**

Corrections to this document should be submitted via the ISO approved Action Request System (ARs). Please click [here](#) to access the AR system via the Interconnection Gateway.

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REQUEST: Provide all documents, methods and procedures, work instructions or training material for BellSouth's Load Control System and management instructions used in the Load Control Work Functions performed in the CWINS centers.

RESPONSE: Information responsive to this request is available at the following pages:

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Process for Project Managed Loops issue- September 17, 2003

1.0 Turn-Up Process for Project Managed Loops

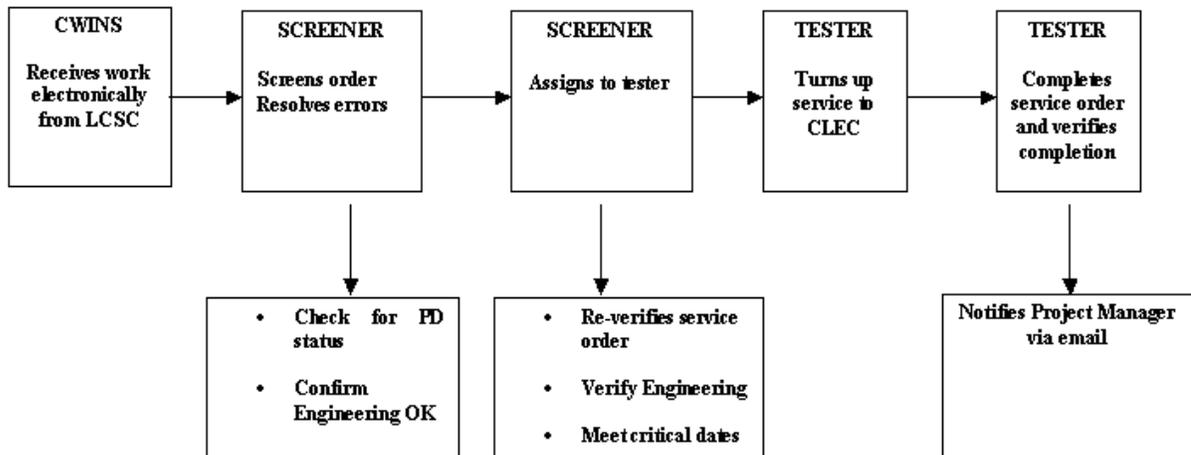
1.1 Turn-Up Process for Project Managed Loops

NOTE: A certain percentage of orders will be unable to be completed on the Due Date due the CLEC and/or End User being not ready etc. These orders will be SD'd / MA'd and may come back to the CWINS technician at a later date for turn up of the service. In order to avoid repeat work, we need to make sure that all orders due on a particular day are screened by the CWINS technician assigned first thing for any previous CLEC / EU caused jeopardies. Any such jeopardies must be investigated / resolved before proceeding any further. **CLICK HERE TO VIEW RESOLUTION OF PENDING CLEC/EU CAUSED**

Technician should check for a new Due Date in SOCS daily. This will allow them to see orders that did not flow to WFA by the new Due Date.

1.2 PROCESS FOR TURN-UP OF PROJECT MANAGED LOOPS

See below to view the Process Flow for Project Managed Loops



UNE-P to UNE-L Bulk Migration issue- October 8, 2003

1.0 High Level Overview and CWINS Responsibilities

1.1 Overview

The UNE-P to UNE-L bulk migration process was developed to allow a streamlined ordering process for CLECs to convert large numbers of similar UNE-P services to UNE-L within a given wire center. The process allows for orders constituting up to 2745 individual lines to be submitted on one LSR. It also provides the CLEC with a SPOC in project management to coordinate the bulk order process with both the CLEC as well as network and CWINS. There are no time-specific or after hours conversions allowed under the Bulk Migration Process. There are also limits on what sort of UNE-P services may be converted under this process. Please click [here](#) for detailed ordering guidelines.

NOTE: The service is somewhat unusual in that it allows for the bulk migration of UNE-P voice loops to UNE-L data loops where compatible facilities exist.

1.2 CWINS Responsibilities

CWINS will be notified by project management on projected locations/dates/volumes of any bulk UNE-P to UNE-L migrations requested by a CLEC. This will allow CWINS the opportunity to allocate manpower appropriately and/or provide feedback to the project manager on the maximum number of conversions a center can handle on a given day. Once the orders are correctly written and assigned they will be handled in accordance with the normal procedures for a conversion to the type of service requested. The exception is that project management must be notified if an order that is part of a bulk migration goes cannot be turned up on the DD for any reason. Every order that is part of a bulk migration will have a 16 character BOPI (Bulk Order Project Identifier) in the PRN field of the service order. The last 4 characters will always be "BULK". The 11th and 12 characters are the initials of the assigned project manager. A full list of contacts for project management can be found [here](#).

CDIA

SGML

Screening Work Process for Designed and Non Designed Provisioning issue- July 8, 2002

2.1 Primary Screener Work Functions

Table E - Step table
Step table

Step	If	Then
1	Pull load list. Identify technicians and work to be assigned per management instructions and Load Control System.	- - -
2	Is order being loaded on DD-2 or earlier?	If yes, proceed to step 6. If no, proceed to next step.
3	Is order being loaded on DD-1?	If yes, notify supervisor if necessary and proceed to step 6. If no, proceed to next step.
4	Is order being loaded on DD?	If yes, hand deliver cut sheet and notify supervisor. Proceed to step 6. If no, proceed to next step.
5	Order is past due.	Notify responsible supervisor and/or ET as required. Proceed to next step.
6	Is order a Time Specific conversion?	If yes, ensure that all cro'd orders go to the same technician. Assign per class of service, time, state, central office and current ET load. End of Process. If no, proceed to next step.
7	Is order a new install?	If yes, and order has multiple lines, ensure all items are assigned to same ET or holding position. Proceed to next step. If no, see next step for PORTBACK disconnects or follow local instructions for loading all other disconnect orders. End of process.
8	Verify in SOCS all disconnect orders for "PON" that contains the word "PORTBACK". If found load order in WFA-C to position "TPR". This position will be monitored/handled by TRAPPER Center personnel exclusively.	- - -
9	Reassign order to appropriate WFA list.	- - -

REQUEST: In BellSouth's response to Interrogatory No. 13, BellSouth states "force modeling is used to determine resources needed to handle volumes". Specifically for field installation and central office personnel, provide all documents, methods and procedures, work instructions or training material used to conduct "force modeling." If as part or all of its response BellSouth directs AT&T to its response Request for Production of Documents No. 8, indicate specifically where in its response to Request for Production of Documents No. 8 is information relevant for field installation and central office personnel.

RESPONSE: The information responsive to this request is proprietary and is in AT&T's possession, custody, or control as it was provided by BellSouth in response to AT&T's Second Request for Production of Documents, Item No. 35, pursuant to the protective agreement in Florida Public Service Commission Docket No. 030851-TP.

- REQUEST: Provide a copy of the most recent non-recurring cost studies conducted in BellSouth's nine-state region, including all associated detailed work activity descriptions and work times, for pricing a hot cut order coordination – specified conversion time, for a SL-1 loop. Show work activity descriptions and work times separately for each of the associated work groups:
- (a) customer Wholesale Interconnection Network Services (CWINS) Center;
 - (b) central office (CO) Frame Attendant;
 - (c) central office Electronic Technician; and
 - (d) other Central Office Personnel, if any.

RESPONSE: BellSouth objects to Interrogatory No. 36 to the extent it seeks information that is already a matter of public record before this or another commission or is otherwise readily accessible to AT&T through publicly available means. BellSouth also objects to this Interrogatory to the extent it seeks information that is already in AT&T's possession, custody, or control.

Subject to this objection, and without waiving this objection, BellSouth states responsive information is located in cost studies previously filed in BellSouth's nine-state region in various proceedings with the state Commissions. Information related to the Docket No., date filed, cost study description, and file name needed to locate this responsive information is listed below. The cost study files listed below contain proprietary information that was provided to AT&T pursuant to the protective agreement in the applicable state proceeding.

RESPONSE (CONT.):

<u>State</u>	<u>Docket</u>	<u>Date</u>	<u>Cost Study Description</u>	<u>File</u>	<u>CD Directory</u>
AL	27821	11/15/01	APSC Staff's 1 st Data Request, Item 15	AL-oc.xls	Data\Alabama Docket No 27821 - Revision 2 - Data Request\State Average\Invstmts
FL	990649A-TP	1/28/02	BellSouth's Compliance Filing - Revision 3	FL-OC.xls	Data\Florida Docket No 990649A-TP - Compliance Filing - Revision 3\State Average\Invstmts
GA	14361-U	2/15/02	GPSC Staff's 1 st Data Request, Item STF-1-2	GA-OC.xls	Data\Georgia Generic Filing - Revision 2 - Bottoms Up Loop Study - Eng\State Average\Invstmts
KY	Administrative Case No. 382	5/31/01	KPSC Staff's 1 st Data Request, Item 10(b)	KY-oc.xls	Data\Kentucky Data Requests with DUF Changes - with Inflation - COM=11\State Average\Invstmts
LA	U-24714, Subdkt A	4/10/01	Revision 3 UNE Cost Studies	LA-oc.xls	Data\Louisiana Docket No U-24714 Subdkt A - Revision 3\State Average\Invstmts
MS	2000-UA-999	4/20/01	UNE Cost Studies, Rev. 1	MS-oc.xls	Data\Mississippi Generic Filing - Revision 1\State Average\Invstmts
NC	P-100, Sub 133d	11/4/02	WorldCom/AT&T's 1 st Request for Production, Item 33	NC-oc.xls	Data\North Carolina Generic Filing - Bottoms-Up - Revision 3\State Average\Invstmts
SC	2001-65-c	4/25/01	UNE Cost Studies, Rev. 1	SC-oc.xls	Data\South Carolina Generic Filing - Revision 1\State Average\Invstmts
TN	97-01262	12/12/97	Supplemental Filing No. 4	t2w1oct.xls	INVSTMTS\DEFAULT\TN