GTE ATTACHMENT 3

Further Description of System Modifications

GTE Service Corporation
April 5, 1999

Clarification of LNP-Specific OSS Costs (Paragraph 10, Designation Order) GTE ATTACHMENT 3

The following table delineates the specific information that the FCC requested in the Order Designating Issues for Investigation regarding modifications made to operations support systems (OSS).

Column A, Functional Area/System Name, contains the system name and summary of the functionality provided by the systems, listed under the major categories used by GTE in the filing of the tariff for cost recovery for number portability. These functional areas relate to the major GTE processes; however, capabilities provided by many OSSs are used across multiple processes within GTE. Where an OSS modifications support more than one process, each process is listed in the description.

Column B, How Modifications Relate to Performing Queries, contains specific information regarding OSS modifications that support the LNP query service, as requested in paragraph 40 of the Cost Classification Order:

"Any portion of eligible LNP costs that is incurred specifically to provide N-1 query services should be allocated to those services."

Column C, How Modifications Relate to Porting Numbers Between Carriers, contains specific information regarding OSS modifications related to porting numbers between carriers. The modifications described in this column are those that align with the narrow definition proscribed by the Common Carrier Bureau (Bureau) in the Cost Classification Order, paragraph 14:

"We also interpret the phrase "porting telephone numbers from one carrier to another" narrowly, as referring only to the systems for uploading and downloading LRN information to and from the regional Number Portability Administration Centers (NPACs) and for transmitting porting orders between carriers."

Column D, How Modifications Relate to Other Number Portability Function, contains specific, detailed information regarding OSS modifications related to providing number portability. This column comprises the second of the two OSS-related LNP functions that the Bureau enumerated in paragraph 50 of the Cost Classification Order:

"(j) operating support system (OSS) modifications for support of the narrowly defined LNP functions described above; and *(k) OSS modifications supporting other functions that the LEC claims are "for the provision of portability.""*

Column E, How Modifications Provide Any Other Service, Feature, or Capability Beyond That Required for Number Portability, describes any functionality included in the OSS modifications that are specifically excluded from number portability cost recovery. The Bureau in paragraph 26 of the Cost Classification Order concludes:

"these modifications also provide a wide range of services and features unrelated to the provision of number portability and are recoverable by LECs in their rates for other services."

A. Functional Area/System Name	B. How Modifications Relate to Performing Queries	C. How Modifications Relate to Porting Numbers Between Carriers	D. How Modifications Relate to Other Number Portability Functions	E. How Modifications Provide Any Other Service, Feature, or Capability Beyond That Required for Number Portability
1. Functional Area: Service Fulfillment Performs pre-ordering and ordering functions, transmitting porting orders between carriers, provisioning and verification of provisioning, LRN updates. There were four new systems/interfaces and changes made to ten service fulfillment systems, in support of LNP.				
a) Advanced Service Assurance Verification Platform/Service Assurance Voice System (ASAVP/SAVS) Verifies that completed service orders have been provisioned correctly, by accessing the central office switch and comparing what is provisioned on the switch to what is specified on the service order. (Note: Used by both ordering/provisioning and repair.).	N/A	N/A	For ported telephone numbers, modified to use the Location Routing Number (LRN) assigned in the Local Service Management System (LSMS) in place of the NPA-NXX to access the correct switch when verifying that an LNP service order was provisioned correctly. These changes are part of the *ordering/provisioning process*, in that they allow the system to access the switch serving ported telephone numbers. These changes are necessary for the system to use the LRN to access the switch to verify service order completion when a telephone number is ported. These changes are also used by the *repair process*, in that trouble tickets execute the verification upon their completion, when the trouble was reported for a ported telephone number and results in switch changes.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.

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b) Business Express (BEX) Prices, configures, and quotes any GTE product.	N/A	N/A	Modified to use the LRN of a ported number instead of NPA-NXX to identify the proper serving switch. These changes allow for pre-ordering of ported telephone numbers as part of the *ordering/provisioning process*. These changes are necessary to ensure that the identification of service availability is correct when a telephone number is ported.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
c) Desktop, Documentation, and Reference (DDR) On-line reference tool with components for providing documentation for systems, GTE practices and procedures, and news applicable to the customer contact associate.	N/A	N/A	Provides information at order time regarding LNP capability in a switch, so that the Local Service Request (LSR) or order requesting number portability can be validated and processed. These changes support the ability to port a TN from one LEC to another, by ensuring that customer contact reference tools used for verification of LNP capability are correct. This is part of the *ordering/provisioning process*.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
d) Enhanced 911 (E911) Emergency service support that provides emergency service numbers to a public service answering point (PSAP) with valid service addresses and generates route changes to the telephone company switch to ensure correct routing	N/A	N/A	Modifications to the E911 extract from completed service orders. This modification creates new transactions to "unlock" E911 records for ported out numbers, and to "migrate" 911 records to the new Service Provider on ported in telephone numbers. These changes ensure that the end user's information is not deleted from the 911 database during the porting process. These changes reflect the LNP standard recommended by the National Emergency Number Association (NENA) Recommended Standards For Service Provider Local Number Portability. These modifications are part of the *ordering/provisioning process.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers. . Includes only those costs associated with compliance to NENA standards for Service Provider Local Number Portability. Excludes all costs associated with GTE as a 911 provider.
e) Local Number Portability Gateway New LNP system that provides communication linkage between GTE systems/work groups and the new Bellcore Local Service Management/Service Order Activation (LSMS/SOA) system. (Note: Used by both ordering/provisioning and repair.)	Provides an interface for management of notification and error messages received from the Number Portability Administration Center (NPAC); for example, messages that indicate failure of updates to the LSMS.	New system for LNP that acts as a router and translator between GTE systems and the LSMS/SOA transmission protocols via the use of many types of system interfaces. Used in the *ordering process* to provide a SOA interface for management of notification and error messages. These messages, which are received during the porting of a telephone number from one carrier to another, provide information from SOA or the Number Portability Administration Center (NPAC) regarding the subscription version updates provided by both carriers to the NPAC during the porting process. Retrieves information from the NPAC	Provides an LSMS interface to request and receive information regarding the status for subscriptions in the NPAC on ported telephone numbers for order completion in the *ordering/provisioning process.* The LSMS interface is also used during trouble isolation in the *repair process.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.

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		to create porting orders.		
f) Local Number Portability Process New system required for LNP order processing. Scans, validates, and routes LNP service orders based on industry-defined flow of communication with the NPAC and other service providers. Formats subscription version transactions from order entry and transmits them to the LNP Gateway. Receives notification and error messages from the LNP Gateway, attaches the messages to the order and routes the orders to the appropriate work group.	N/A	Scans, validates, and routes service orders for porting of telephone numbers between carriers, based on the industry-defined flow of communication with the NPAC and other service providers. Extracts and formats subscription version transactions from order entry and transmits them to the LNP Gateway as part of the *ordering process.*	Scans, validates, and routes service orders for porting of telephone numbers, based on industry-defined flow of communication with the NPAC and other service providers. Formats subscription version transactions from order entry and transmits them to the LNP Gateway. Receives notification and error messages from the LNP Gateway, attaches the messages to the order and routes the orders to the appropriate work group. Part of the *ordering/provisioning process.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
g) Local Service Management System (LSMS) /Service Order Activation (SOA) The LSMS/SOA is a new Bellcore LNP product that provides an interface from GTE Operational Support Systems (OSS) and the regional number portability databases. (Note: used by both ordering/provisioning and repair.)	Within a given area, individual number portability routing databases [ISCPs] will be administered and maintained by a local SMS. The LSMS database interconnects to an ISCP and sends to the ISCP the ported number information and call processing instructions needed for a network switch to process and complete a telephone call. The LSMS receives all ported number routing information from the NPAC/LSMS and provisions the applicable LNP SCPs with the active ported telephone number LNP routing information.	New system required for Local Number Portability. LSMS/SOA handles all subscription transactions for ported numbers and related LNP requests. It communicates subscription information to the NPAC. It permits the flow through between GTE' s service order processing systems used for service activation. LSMS/SOA is also the vehicle in which a service provider creates and updates ported number records, and sends this information to the regional SMS. The regional SMS will act as a central clearinghouse for administrative and operations related functions necessary to provide the efficient and consistent management of data required in support of number portability in a given area.	Provides information regarding the NPAC status of ported telephone numbers for order completion in the *ordering/provisioning process* and trouble isolation in the *repair process.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
h) Mechanized Assignment and Record Keeping (MARK) The GEIS product that provides automated facility management and record administration system for Inside and Outside Plant. MARK manages the GTE telephone number inventory. The MARK system also provides data to the service order entry process, creates and delivers recent changes to the switch, and performs street address maintenance.	N/A	N/A	Manages inventory of ported telephone numbers with the corresponding LNP information, e.g. LRN. Provides for new status of ported telephone numbers so that non-native TNs will age and be returned to the donor switch, while native number can be returned to inventory upon disconnect at the new service provider. Also sets/deletes the Ten Digit Trigger that is required by LNP for seamless provisioning between service providers. Allows non-native telephone numbers to be assigned in a switch. These changes are part of the *ordering/provisioning process.* These changes are necessary to ensure that telephone number inventories are correctly	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.

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			assigned, aged, identified and returned to original code holders.	
i) Network Element Data Administration System (NEDAS) This system is the trunk side Data Base Administration (DBA) tool for Recent Change generation, delivery and administration. DBA is responsible for programming approximately 2000 switches.	N/A	N/A	Provides the ability to manage LNP information in the switch, e.g., open NPA NXXs for number portability and identify the LRN for a switch. These changes are necessary to ensure that switches are properly programmed with portable codes and local routing numbers (LRNs), and are part of the *ordering/provisioning process.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
j) National Order Collection Vehicle (NOCV) One of three GTE Network Services order entry systems, NOCV provides online capability to create and modify Service Orders. It also provides offline processing and activation of the service orders created. It is an enhancement of the Service Order Loading and Retrieving system (SOLAR), the Automated Distribution System, the Telephone Number Selector System, the Customer Profile Inquiry system, and Service Activation.	N/A	N/A	These system changes allow additional routing logic based on the NANC industry-defined provisioning flow for number portability. They accept and store LNP information, e.g., LRN, and generate new transactions to MARK for LNP orders to set and remove the ten-digit trigger. The system changes accept and process non-native telephone numbers with their associated LRN. These changes are part of the *ordering/provisioning process* for ported telephone numbers. These changes are necessary to ensure that customer-requested LNP service orders are properly routed, according to NANC standards, allowing porting to occur as committed. Note: NOCV is replacing SOLAR and SORCES.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
k) Service Order Loading and Retrieval (SOLAR) SOLAR is an online order entry system for installing, changing, or discontinuing services. It also provides off-line processing of the Service Orders created, for interfacing with other systems such as the inventory management systems.	N/A	N/A	These system changes allow additional routing logic based on the NANC industry-defined provisioning flow for number portability. They accept and store LNP information, e.g., LRN, and generate new transactions to MARK for LNP orders to set and remove the ten-digit trigger. The system changes accept and process non-native telephone numbers with their associated LRN. These changes are part of the *ordering/provisioning process* for ported telephone numbers. These changes are necessary to ensure that customer-requested LNP service orders are properly routed, according to NANC standards, allowing porting to occur as committed.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
l) Service Order Record Computer Entry System (SORCES) SORCES is composed of both online and offline systems. It provides online	N/A	N/A	Allows service orders to be processed according to the NANC industry-defined flow for number portability. It accepts and stores LNP information, e.g., LRN. These changes to the *ordering/provisioning*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can

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capability to create, modify, and cancel service orders. Customer specific information can be accessed. SORCES provides online retrieval by telephone number; service orders can be retrieved by service name, address, telephone number, and order number.			*process* are necessary to ensure that customer-requested LNP service orders are properly handled, according to NANC standards, allowing porting to occur as committed.	only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
m) Subscription Services Subscription Services maintains the GTE Network Services customers' carrier selections (PIC). These PIC updates are requested by the GTE Network Service's customers through GTE's Service Order systems (SORCES/SOLAR/NOCV) or through the Ballot & Allocation (BAS) process. GTE staff can update/correct PIC through the Perpetual Compare (Switch Data Integrity) process or through online transactions. PIC updates are also sent to GTE Network Services from the long distance carriers via batch CARE transactions, Internet-Web browser access, and through a CMIP gateway (EB/SS).	N/A	N/A	As part of the *ordering/provisioning process*, associates a non-native ported telephone number with an LRN, so that ported non-native telephone numbers can be PIC' d to carriers associated with the serving switch. It also provides new information regarding porting activity to other carrier. These changes are necessary to ensure that a customer' s selection of a long distance carrier is correctly associated with a ported number.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
n) Supplier Gateway A new system that provides outbound LSR generation and business rules for the Ordering and Billing Forum (OBF) industry-defined number portability transactions to other carriers, as defined in the NANC industry-standard number portability flow	N/A	New system required for LNP transactions with other carriers. These changes allow GTE to transmit porting orders to other carriers. The changes are necessary in the *ordering process* to ensure that LNP orders can be created according to industry standards. It provides the ability to communicate LNP information on LSRs to other Local Exchange Carriers (LECs) via the electronic data interchange (EDI) format, fax, or other methods.	N/A	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
2.) Service Assurance Systems Performs trouble isolation, repair, and network monitoring functions. There were two new interfaces developed and changes made to fourteen service assurance OSS, in support of LNP implementation. These systems perform trouble isolation and analysis for telephone numbers that have been ported, e.g., ensure that porting information (LRN, etc.) for telephone number is accurately indicated in the LSMS.				
a) 4TEL® The 4TEL system, a Teradyne product, performs routine and demand tests on subscriber local loops. The system contains voice response and patterning features and produces reports and repair ticket information where the test parameters are exceeded. 4TEL can be initiated from other GTE OSS, or can be invoked directly by a field or central office technician. (Note: Used by both	N/A	N/A	Provides the ability to perform loop tests on non-native telephone numbers. 4TEL will use the LRN associated with the ported telephone number to identify the serving switch before initiating a loop test. These changes are used in the *ordering/ provisioning process* at the completion of service orders for ported numbers, to verify that the service was provisioned correctly. These changes are used as well as the *repair process*, to perform existing loop	These changes also incorporate new vendor test library. GTE filing excludes the costs of implementing these new vendor library components.

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ordering/provisioning and repair.)			testing for ported telephone numbers on completion of trouble tickets.	
b) Automated Work Administration System (AWAS) AWAS assigns work to GTE Network Services Customer Zone Technicians (CZT) and Central Office (CO) Technicians. AWAS distributes the work received from the various system interfaces by prioritizing, routing and recording the technicians work and availability. Specific table entries are used to assign trouble reports and service orders to the technicians in the most efficient manner. (Note: Used by both ordering/provisioning and repair.)	N/A	N/A	For ported telephone numbers, identifies correct work assignment and destination for field personnel on service orders. Provides and processes additional LNP information (e.g., LRN) on service orders distributed to technicians. These changes are necessary to ensure that a service order is correctly assigned to field and CO technicians when ported numbers are involved, as part of the *ordering/provisioning* process. These changes are also used in the *repair process*, to assign a trouble ticket to the correct field location for ported telephone numbers. Additional LNP information is also provided on the trouble tickets	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
c) Customer Care (Care) Care provides single desktop access to many support systems for the repair center advocate. An automated testing facility component automatically retrieves and reviews pending trouble tickets and initiates a local loop test.	N/A	N/A	Modifies screens, tables, and interfaces to provide the information (e.g., LRN, LSPID) regarding the port status of telephone numbers within the LSMS. Uses LRN to identify serving switch of a ported telephone number so that existing repair functions can be properly applied. Changes the automated routing of trouble tickets based on port status information received from the LSMS and NPAC download. Performs trouble isolation and analysis for telephone numbers that have been ported, e.g., ensures that porting information (LRN, etc.) for the telephone number is accurate as indicated in the LSMS. These changes allow for repairing of ported telephone numbers in the *repair process,* in that they ensure that ported numbers are properly identified with the serving switch.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
d) Computer Telephony Integration (CTI)/ Interactive Voice Response Unit (IVRU) CTI refers to a system group that interfaces with Automatic Call Distributor/IVRU (ACD/IVRU) facilities and workstations to provide the agent with the information collected from the customer during an IVRU session. The customer information obtained through this process is provided via screen pops to the call center agent.	N/A	N/A	Changes support the look-up of numbers in LSMS to determine if end user is served by GTE, and modifies windows to display LSMS information. Modifies IVRU scripts to address ported telephone numbers (e.g., advise customer who ported out to contact current service provider). The changes are necessary to the *repair process* to ensure that the IVRU correctly handles ported numbers.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.

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e) Digital Services Test System (DSTS) DSTS is an expert system that provides repair technicians and Care center personnel the ability to test and isolate faults on digital services such as ISDN and ADSL.	N/A	N/A	For ported numbers, DSTS queries the LSMS to obtain the LRN to identify the correct central office switch to access for testing purposes. These changes are necessary to ensure proper maintenance of digital services when telephone numbers are ported, as part of the *repair process.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
f) NetMinder NetMinder is a Lucent Technologies product that provides real-time centralized network traffic management functions for the Network Operations Center (NOC). It monitors traffic, detects transmission problems, and aids in the resolution of these problems.	An augmentation to NetMinder was necessary to perform network traffic management functions associated with LNP traffic volumes. This required an LNP-specific software upgrade. These changes are necessary to ensure that LNP traffic volumes can be correctly monitored and maintained when LNP is implemented.	N/A	An augmentation to NetMinder was necessary to perform network traffic management functions associated with LNP traffic volumes. This required an LNP-specific software upgrade. These changes are necessary to ensure that LNP traffic volumes can be correctly monitored and maintained when LNP is implemented, and is part of the *network monitoring process.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
g) Network Operation Center (NOC)/Trouble Administration System (TAS) Interface A new LNP interface that provides an electronic means of passing trouble ticket information to LNP support staff at the NOC once the trouble has been isolated to the network.	N/A	N/A	Modifications allow the NOC LNP support staff to receive and process the LNP trouble ticket. Provides LNP information to work group that is involved in trouble flow of individual trouble tickets only for LNP-related trouble. New interface in the *repair process* required for LNP in order to continue to achieve existing service quality standards. These changes are necessary to ensure that trouble tickets are correct and routed in a timely manner when telephone numbers are ported.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
h) SITES SITES is a centralized repository that contains critical statistics for every GTE common language identity code (CLLI) site.	N/A	N/A	For ported telephone numbers, SITES accepts the LRN and uses it to identify the serving switch. The LRN is also used to determine the correct distribution for trouble tickets as part of the *repair process.* These changes are necessary to ensure that ported number and serving switch information is correctly contained in a central repository for use by other systems in the *repair* and *monitoring processes.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
i) Switch Access Manager (SAM) SAM provides access to the switch network technology for all authorized users to perform recent change activity and to verify features that are active in the switch. (Note: Used by both ordering/provisioning and repair.)	N/A	N/A	Access the LSMS to identify the LRN on port-capable NPA NXXs. Provide access to network elements that contain ported telephone numbers based on the LRN. As part of the *ordering/provisioning process,* the modifications provide access to serving switch to perform recent change activity during service order processing for ported	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service

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			numbers. As part of the *repair process*, modifications use LRN to access the serving switch to verify features that are active in the switch The changes are necessary to ensure correct identification of ported numbers and the appropriate serving switch when telephone numbers are ported.	of ported telephone numbers.
j) STARMEM StarMem, a Beechwood product, provides an automatic comparison of information on the service order to features programmed into the switch. This enables the Care technician to determine the modifications required to synchronize the customer's records with requested products, services and PIC. (Note: Used by both ordering/provisioning and repair.)	N/A	N/A	Adds the ability to query the LSMS to determine the serving switch for a ported telephone number. Uses the LRN to access switch information for ported telephone numbers. These changes are necessary to ensure that ported telephone numbers and associated LRNs are correctly identified. These changes ensure that the correct switch is updated during in the *ordering/provisioning process* by using LRN to identify serving switch for ported numbers. These changes are also used in the *repair process* when an advocate must access the serving switch of a ported telephone number to correct the switch programming. The changes ensure that the correct switch is updated by using LRN to identify serving switch.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
k) Telecommunications Data Collection System (TDCS) TDCS collects and validates central office switch traffic data and provides reports based upon the collected data. TDCS is used by Network Dimensioning to determine when additional equipment is required in a central office.	Collects traffic and performance data from the LNP SCP.	N/A	Collects traffic and performance data from the LNP SCP, as well as new LNP data coming from digital Stored Program Control (SPC) switches. These changes, as part of the *network monitoring process*, are necessary to ensure that network additions data are correct when number portability is implemented.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
l) Telephone Operations Network Interface Control System (TONICS)/ LNP Gateway Interface TONICS provides fault, performance, configuration and security management across all network domains. Graphical screens provide a variety of visualizations of the state of the network, and support a variety of command interfaces to network elements.	A new LNP interface provides access to LSMS via the LNP Gateway so that LNP alarms and alerts (e.g., regarding associations to the NPAC) can be monitored in the same fashion as other network elements. These changes are necessary to ensure that unique network configurations are correctly monitored for quality performance when number portability is implemented.	N/A	A new LNP interface provides access to LSMS via the LNP Gateway so that LNP alarms and alerts (e.g., regarding associations to the NPAC) can be monitored in the same fashion as other network elements. These changes are necessary to ensure that unique network configurations are correctly monitored for quality performance when number portability is implemented, as part of the *network monitoring process*.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.

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m) TONICS Alarm Correlation Engine (ACE) ACE is a client/sever application that performs alarm correlation of network switching data to detect equipment degradation before it becomes service affecting. Alarm correlation refers to intelligent interpretation of multiple alarms from a variety of sources including network elements and critical OSS. TONICS-ACE translates multiple alarm events into a single derived alarm requiring action.	N/A	N/A	This alarm correlation capability will reduce, over a period of time, the large volume of alarm events processed through TONICS to the NOC network monitoring staff. The system is being enhanced to manage ported numbers, to provide the ability to correlate line-level faults to the associated customers affected by these faults, ensuring quality of service and time to restore. These changes are part of the *network monitoring process.*	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
n) TONICS for Customer Access Facilities (TCAF) TCAF analyzes switch messages to determine if a CAF fault exists. TCAF can request demand test via 4TEL or internal diagnostics on a suspect line. A pattern trouble ticket is created and dispatched to a technician once three cases of trouble are reported on the same 25-pair complement.	N/A	N/A	For ported telephone numbers, TCAF determines the LRN for a CLLI (switch) and uses that to initiate a 4TEL test. These changes are part of the *repair process.* These changes are necessary to ensure that ported numbers and associated LRNs are correctly identified.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
o) Traffic Irregularity System (TIAS) TIAS is a stand-alone correlation system for identifying message network problems from individual call failure data. It provides the traffic manager with information on mass calling, traffic overloads, translation errors, bad reroutes, software errors, etc.	Provides the ability to diagnose traffic problems related to LNP. Collects link and traffic monitoring data as well as Failed Call and Failed SCP query events. TIAS also associates the dialed digits with the appropriate called office using LRN. These changes were necessary to ensure that traffic problem diagnosis is correct when number portability is implemented.	N/A	Provides the ability to diagnose traffic problems related to LNP. Collects link and traffic monitoring data as well as Failed Call and Failed SCP query events, as part of the *network monitoring process.* TIAS also associates the dialed digits with the appropriate called office using LRN. These changes were necessary to ensure that traffic problem diagnosis is correct when number portability is implemented.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
p) Trouble Administration System (TAS) TAS automates the creation and flow of Trouble Reports (for telephone numbers and circuits) through closure. Provides supervisory "queue" functions enabling tracking of individual and DAC/Care Centers.	N/A	N/A	Provides the ability to query the LSMS regarding the status of a ported number, and stores the information regarding ported telephone numbers on the trouble ticket. Added new trouble resolution codes to reflect the source of trouble regarding ported telephone numbers (e.g., NPAC download failure). Allows use of the LRN to identify serving switch of a non-native telephone number. These changes, part of the *repair process,* are necessary to ensure	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.

A. Functional Area/System Name	B. How Modifications Relate to Performing Queries	C. How Modifications Relate to Porting Numbers Between Carriers	D. How Modifications Relate to Other Number Portability Functions	E. How Modifications Provide Any Other Service, Feature, or Capability Beyond That Required for Number Portability
			that trouble reports are correct when a telephone number is ported.	
3.) Billing and Usage Systems Performs usage, rating and pricing, bill creation, and payment/adjustment functions. There were changes made to eight usage and billing operations support systems, in support of LNP implementation.				
a) Bill inquiry, Voucher and Treatment (BVT) An on-line and batch application that provides a current representation of the customers bill, payment data and treatment status allowing the customer contact service representative to service the customer utilizing the most current data possible. BVT performs on-line retrieval of the customer bill for adjustment, voucher creation, and treatment.	N/A	N/A	Provides information regarding ported telephone numbers and customer port status that appears on the end user bill. These changes, part of the *payment/adjustment process*, allow for adjustments to be identified and processed for ported telephone numbers. These changes are necessary to ensure that customer bill, payment and related information is correct when a telephone number is ported.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
b) Customer Billing Services System (CBSS) CBSS is the central system of the end user billing process. It receives data from other systems and uses that data to calculate, verify, and produce customer bills. The purpose of CBSS is to provide a flexible billing system that will accommodate rating and formatting changes quickly and economically. CBSS also posts data to accounting journals, compiles statistical information and provides a means of reporting current business information to management.	N/A	N/A	Splits and redirects usage correctly based on owner of ported numbers rather than owner of NPA NXX. Using the LRN, provides the ability to rate messages according to local calling plans associated with non-native numbers. Changes allow *usage, bill calculation, bill format, and payment/adjustment processes* to process ported telephone numbers. Accepts usage for foreign telephone numbers into the end user billing systems so that ported-in TNs can be billed. These changes are necessary to ensure that customers' bills are correct when LNP is implemented and when telephone numbers are ported. Provides the ability to bill the LNP end user surcharge in accordance with the Commission' s requirements in the Third Report and Order.	Enhancement also provided ability for GTE to continue to bill other products and services when customer ported out their TN. The costs associated with these continuing services are not included in the recoverable costs.
c) GTE Security Administration System (GSAS) / Security Toll Online Message Processing System (STOMPS) GSAS/STOMPS automates the process of investigating toll fraud, subscription fraud, prison fraud and Amigo fraud. The system receives toll records from end user billing that are suspect as fraud; customer records from Recoup when the uncollectible is flagged as fraud; DBAC records for suspect high credit card use; ACM records when an account exceeds	N/A	N/A	Accepts and processes LNP data on billing file input. Allows fraud determination logic to use LRN when necessary. Provide access to number portability information (service provider, effective date, LRN, etc.) for ported telephone numbers in response to a court order or subpoena. Changes allow *fraud and security processes* to process ported telephone numbers. These changes are necessary to ensure that fraud protections and investigations are correct when a telephone number is ported.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.

A. Functional Area/System Name	B. How Modifications Relate to Performing Queries	C. How Modifications Relate to Porting Numbers Between Carriers	D. How Modifications Relate to Other Number Portability Functions	E. How Modifications Provide Any Other Service, Feature, or Capability Beyond That Required for Number Portability
the Security Limit. The system provides the ability to enter, track and monitor suspects and restitution if convicted.				
d) Network Profile System (NPS) NPS provides data that is passed to the financial system for general ledger booking activity and financial reporting. NPS also provides analysis support through the interface extract function, which enables the user to gather customer, line, and equipment data, messages, and minutes of use, for traffic studies.		N/A	Accepts and processes LNP data on billing file input. Identifies LRN and native/non-native telephone number attributes for use in revenue assignment. Changes adjust *payment/adjustment processes* to reflect ported telephone numbers. These changes allow proper financial, accounting and management reporting of revenues regarding ported telephone numbers.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
e) Other Carrier Settlement System (OCSS) OCSS provides file receipt and settlement reports to the non-AT& T carriers. OCSS tracks Invoice ready and Casual User revenue that GTE will collect for all non-AT&T carriers.	N/A	N/A	Changes the *settlement process* to handle ported telephone numbers. Accepts and processes LNP data on billing file input. Modifies logic to direct settlements to proper carrier based on porting activity according to industry standards. These changes allow for proper carrier revenue settlements based on billing of ported telephone numbers. The changes are necessary to ensure that settlements are correct when a telephone number is ported.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
f) Secure Integrated Gateway System (SIGS) SIGS is an application that captures ownership information regarding end user accounts and telephone numbers for processing in ordering and billing systems. (Note: used by both ordering/provisioning and billing.)	N/A	Modified the *ordering process* to use LNP information to identify LEC ownership of ported telephone numbers for accepting, creating, and transmitting porting order between carriers.	Modified to capture LNP information (service provider ID, effective date, etc.) from LSMS to local table for all ported telephone numbers, for processing within the Billing systems, e.g., to screen usage data. Changes allow *usage process* to properly accept/reject usage for ported telephone numbers. These changes are necessary to ensure correct ownership information in billing of services when a telephone number is ported.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
g) Toll Error Message Processing On-Line (TEMPO) TEMPO provides an efficient means of investigating and correcting all toll messages, which err during the CBSS usage processing.	N/A	N/A	Process new LNP related error messages associated with ported telephone numbers. Changes allow *usage process* to reflect information regarding ported telephone numbers. These changes are necessary to ensure that erred toll messages are correctly handled when a telephone number is ported.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.
h) Usage Messaging System (UMS) UMS processes usage billing data from the GTE switching environment (1350 sites). It retrieves, formats, conditions,	N/A	N/A	Processes new AMA record formats that were implemented with LNP, and adds LRN where needed. Provides logic to interrogate LSMS information to identify service provider for ported telephone numbers.	These changes do not provide any other service, feature, or capability beyond that required for number portability. The changes can

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validates, edits, screens, provides error correction and aggregates usage for down stream billing systems. It forwards inter-LATA toll to proper carrier.			Changed *usage process* to reflect new information regarding ported telephone numbers. The changes are necessary to ensure that usage records are correct when a telephone number is ported.	only be invoked in support of ported telephone numbers, and only in verifying service of ported telephone numbers.

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GTE ATTACHMENT 4

Chart A – Line Forecast

Chart B – Busy Hour Attempts

Chart C – Capacity Queries per Second

Chart D – Busy Hour Queries

GTE Federal End User Surcharge Tariff Line Forecast

LNP = D = Deployed or Selected, LNP = N = Not Selected

GTE ATTACHMENT 4
CHART A

STATE	LNP	Service	10/98 Workin	1997	1998	1999	2000	2001	2002	2003
GTE	D	CENTREX		818,880	948,188	1,063,209	1,159,840	1,246,960	1,328,471	1,404,509
GTE	D	CMPY OFFCL		148,766	148,782	148,782	148,782	148,782	148,782	148,782
GTE	D	ISDN PRI		73,416	135,600	187,440	233,784	276,168	316,512	353,904
GTE	D	PBX TRUNKS		277,001	283,880	291,027	296,911	301,651	305,011	307,045
GTE	D	SWITCH TOT	10,745,747	9,858,425	10,656,142	11,151,610	11,567,753	11,947,379	12,302,220	12,634,720
GTE	N	CENTREX		470,246	549,028	617,488	675,284	725,227	774,614	824,166
GTE	N	CMPY OFFCL		173,936	173,948	173,963	173,980	173,997	174,016	174,034
GTE	N	ISDN PRI		26,225	57,785	81,233	101,081	121,937	142,553	163,385
GTE	N	PBX TRUNKS		190,706	207,731	219,314	230,081	240,003	249,504	259,177
GTE	N	SWITCH TOT	8,576,527	8,047,958	8,678,582	9,032,963	9,335,492	9,624,214	9,908,082	10,189,343
GTE Total Lines			**19,322,274**	**17,906,383**	**19,334,724**	**20,184,573**	**20,903,245**	**21,571,593**	**22,210,302**	**22,824,063**
AL	D	CENTREX		1,422	1,896	2,251	2,620	3,015	3,386	3,765
AL	D	CMPY OFFCL		768	768	768	768	768	768	768
AL	D	ISDN PRI		0	0	0	0	0	0	0
AL	D	PBX TRUNKS		359	373	397	418	442	462	486
AL	D	SWITCH TOT	37,486	33,617	35,327	36,809	38,196	39,658	41,053	42,576
AL	N	CENTREX		13,031	15,672	17,963	20,260	22,766	25,022	27,398
AL	N	CMPY OFFCL		4,030	4,030	4,030	4,030	4,030	4,030	4,030
AL	N	ISDN PRI		24	744	1,248	1,680	2,256	2,832	3,408
AL	N	PBX TRUNKS		4,221	4,743	5,237	5,732	6,268	6,748	7,245
AL	N	SWITCH TOT	250,848	237,813	246,970	256,729	263,947	271,396	278,419	285,597
AL Total Lines			**288,334**	**271,430**	**282,297**	**293,538**	**302,143**	**311,054**	**319,472**	**328,173**
AR	D	CENTREX		1,421	1,633	1,783	1,869	1,902	1,934	1,966
AR	D	CMPY OFFCL		460	460	460	460	460	460	460
AR	D	ISDN PRI		0	240	600	672	768	888	888
AR	D	PBX TRUNKS		775	834	966	1,090	1,212	1,334	1,456
AR	D	SWITCH TOT	67,471	61,809	70,179	74,995	77,994	80,821	83,656	86,215
AR	N	CENTREX		1,487	1,920	2,173	2,356	2,475	2,575	2,672

AR	N	CMPY OFFCL		2,548	2,548	2,548	2,548	2,548	2,548	2,548
AR	N	ISDN PRI		0	288	384	504	624	768	792
AR	N	PBX TRUNKS		1,552	1,695	1,876	2,057	2,233	2,405	2,574
AR	N	SWITCH TOT	159,158	139,714	144,990	149,920	154,332	158,338	162,226	166,095
AR Total Lines			**226,629**	**201,523**	**215,169**	**224,915**	**232,326**	**239,159**	**245,882**	**252,310**
AZ	D	CENTREX		9	12	14	17	20	23	26
AZ	D	CMPY OFFCL		9	9	9	9	9	9	9
AZ	D	ISDN PRI		0	0	0	0	0	0	0
AZ	D	PBX TRUNKS		23	22	21	20	18	17	16
AZ	D	SWITCH TOT	678	684	703	717	734	751	770	788
AZ	N	CENTREX		309	329	339	349	360	379	398
AZ	N	CMPY OFFCL		131	131	131	131	131	131	131
AZ	N	ISDN PRI		0	0	0	0	0	0	0
AZ	N	PBX TRUNKS		100	107	116	121	127	132	137
AZ	N	SWITCH TOT	8,676	8,020	8,338	8,679	9,021	9,383	9,753	10,129
AZ Total Lines			**9,354**	**8,704**	**9,041**	**9,396**	**9,755**	**10,134**	**10,523**	**10,917**
CA	D	CENTREX		483,040	574,101	646,028	707,202	763,414	815,731	865,192
CA	D	CMPY OFFCL		55,316	55,316	55,316	55,316	55,316	55,316	55,316
CA	D	ISDN PRI		16,728	41,400	58,224	73,656	88,776	103,632	118,344
CA	D	PBX TRUNKS		124,802	126,638	127,987	129,263	130,463	131,409	132,262
CA	D	SWITCH TOT	4,240,470	3,931,003	4,151,540	4,311,236	4,455,545	4,589,243	4,715,730	4,833,954
CA	N	CENTREX		47,077	62,560	68,735	74,365	79,266	84,311	89,507
CA	N	CMPY OFFCL		5,947	5,947	5,947	5,947	5,947	5,947	5,947
CA	N	ISDN PRI		1,536	3,096	4,536	5,832	7,152	8,568	10,056
CA	N	PBX TRUNKS		10,716	10,858	10,881	10,838	10,792	10,695	10,594
CA	N	SWITCH TOT	477,776	478,729	532,581	551,983	569,696	585,839	601,821	617,655
CA Total Lines			**4,718,246**	**4,409,732**	**4,684,121**	**4,863,219**	**5,025,241**	**5,175,082**	**5,317,551**	**5,451,609**
FL	D	CENTREX		105,268	118,337	134,785	149,557	163,165	176,011	187,397
FL	D	CMPY OFFCL		29,202	29,202	29,202	29,202	29,202	29,202	29,202
FL	D	ISDN PRI		19,560	31,272	43,704	55,512	65,256	74,136	81,696
FL	D	PBX TRUNKS		50,418	50,684	51,497	52,025	51,913	50,985	49,195
FL	D	SWITCH TOT	2,109,787	1,906,291	2,104,501	2,206,319	2,294,077	2,372,631	2,444,275	2,508,205

FL	N	CENTREX		15,262	17,444	20,187	23,134	25,974	28,928	31,963
FL	N	CMPY OFFCL		4,923	4,923	4,923	4,923	4,923	4,923	4,923
FL	N	ISDN PRI		1,488	2,712	3,648	4,488	5,304	6,024	6,624
FL	N	PBX TRUNKS		5,852	6,239	6,604	6,870	7,125	7,343	7,498
FL	N	SWITCH TOT	372,174	330,039	350,584	369,376	386,900	403,873	420,270	435,930
FL Total Lines			**2,481,961**	**2,236,330**	**2,455,085**	**2,575,695**	**2,680,977**	**2,776,504**	**2,864,545**	**2,944,135**
HI	D	CENTREX		46,797	49,591	52,093	54,201	56,035	57,563	58,923
HI	D	CMPY OFFCL		10,559	10,559	10,559	10,559	10,559	10,559	10,559
HI	D	ISDN PRI		4,680	9,840	12,216	14,472	16,680	18,864	21,048
HI	D	PBX TRUNKS		23,627	23,648	24,008	24,414	24,616	24,781	24,906
HI	D	SWITCH TOT	533,004	491,487	507,015	517,176	525,888	534,597	543,109	551,402
HI	N	CENTREX		12,271	13,627	14,534	15,385	16,160	16,907	17,599
HI	N	CMPY OFFCL		5,063	5,063	5,063	5,063	5,063	5,063	5,063
HI	N	ISDN PRI		696	2,208	3,192	4,056	4,920	5,784	6,648
HI	N	PBX TRUNKS		5,738	6,087	6,309	6,478	6,612	6,739	6,862
HI	N	SWITCH TOT	228,951	219,324	227,653	235,139	241,800	248,567	255,335	261,975
HI Total Lines			**761,955**	**710,811**	**734,668**	**752,315**	**767,688**	**783,164**	**798,444**	**813,377**
IA	N	CENTREX		4,571	5,385	6,147	6,853	7,508	8,151	8,801
IA	N	CMPY OFFCL		9,261	9,261	9,261	9,261	9,261	9,261	9,261
IA	N	ISDN PRI		120	648	792	1,008	1,248	1,536	1,584
IA	N	PBX TRUNKS		4,111	4,494	4,699	4,884	5,034	5,181	5,326
IA	N	SWITCH TOT	285,948	272,652	286,820	293,213	298,738	304,146	309,488	314,785
IA Total Lines			**285,948**	**272,652**	**286,820**	**293,213**	**298,738**	**304,146**	**309,488**	**314,785**
ID	D	SWITCH TOT	0	0	0	0	0	0	0	0
ID	N	CENTREX		11,521	12,302	13,205	13,983	14,733	15,433	16,033
ID	N	CMPY OFFCL		2,656	2,676	2,691	2,706	2,721	2,736	2,751
ID	N	ISDN PRI		144	912	1,464	2,064	2,736	3,600	4,488
ID	N	PBX TRUNKS		2,055	2,219	2,402	2,611	2,830	3,054	3,310
ID	N	SWITCH TOT	138,875	110,295	117,679	123,825	130,030	136,573	143,557	150,803
ID Total Lines			**138,875**	**110,295**	**117,679**	**123,825**	**130,030**	**136,573**	**143,557**	**150,803**
IL	D	CENTREX		1,743	1,951	2,121	2,304	2,554	2,806	3,058
IL	D	CMPY OFFCL		1,015	1,015	1,015	1,015	1,015	1,015	1,015

IL	D	ISDN PRI		0	24	24	24	24	24	24
IL	D	PBX TRUNKS		604	632	657	686	717	748	780
IL	D	SWITCH TOT	59,760	30,242	33,157	35,020	36,635	38,083	39,591	40,968
IL	N	CENTREX		24,788	29,074	32,717	36,341	39,679	42,885	45,962
IL	N	CMPY OFFCL		19,701	19,701	19,701	19,701	19,701	19,701	19,701
IL	N	ISDN PRI		792	1,632	2,232	2,856	3,432	3,960	4,440
IL	N	PBX TRUNKS		14,816	16,769	18,721	20,684	22,668	24,661	26,650
IL	N	SWITCH TOT	871,218	775,702	817,438	847,356	875,975	903,125	930,251	956,322
IL Total Lines			**930,978**	**805,944**	**850,595**	**882,376**	**912,610**	**941,208**	**969,842**	**997,290**
IN	D	CENTREX		24,574	26,184	27,686	28,989	30,249	31,441	32,555
IN	D	CMPY OFFCL		15,170	15,170	15,170	15,170	15,170	15,170	15,170
IN	D	ISDN PRI		1,776	3,264	5,064	6,888	8,664	10,512	12,360
IN	D	PBX TRUNKS		13,195	14,069	15,012	15,944	16,865	17,784	18,697
IN	D	SWITCH TOT	417,777	400,989	423,195	442,851	460,703	477,515	493,516	509,088
IN	N	CENTREX		22,195	24,569	26,754	28,758	30,719	32,632	34,490
IN	N	CMPY OFFCL		11,544	11,544	11,544	11,544	11,544	11,544	11,544
IN	N	ISDN PRI		1,728	3,048	4,560	5,928	7,416	8,856	10,320
IN	N	PBX TRUNKS		13,764	14,921	15,995	17,045	18,091	19,111	20,099
IN	N	SWITCH TOT	563,921	535,240	598,861	625,176	648,891	671,494	692,915	713,757
IN Total Lines			**981,698**	**936,229**	**1,022,056**	**1,068,027**	**1,109,594**	**1,149,009**	**1,186,431**	**1,222,845**
KY	D	SWITCH TOT	0	0	0	0	0	0	0	0
KY	N	CENTREX		32,951	35,141	37,461	39,827	41,937	44,044	46,205
KY	N	CMPY OFFCL		9,466	9,466	9,466	9,466	9,466	9,466	9,466
KY	N	ISDN PRI		2,208	4,968	6,696	8,088	9,864	11,592	13,320
KY	N	PBX TRUNKS		15,466	17,170	17,591	17,916	18,249	18,523	18,804
KY	N	SWITCH TOT	527,110	508,066	533,626	557,607	574,341	590,803	606,355	622,638
KY Total Lines			**527,110**	**508,066**	**533,626**	**557,607**	**574,341**	**590,803**	**606,355**	**622,638**
MI	D	CENTREX		2,805	3,426	4,192	5,127	6,060	6,964	7,843
MI	D	CMPY OFFCL		743	743	743	743	743	743	743
MI	D	ISDN PRI		72	120	144	168	192	192	216
MI	D	PBX TRUNKS		1,423	1,568	1,691	1,799	1,878	1,943	1,990
MI	D	SWITCH TOT	140,607	125,276	133,395	141,164	147,417	153,775	160,293	167,000

MI	N	CENTREX		26,095	32,191	39,410	46,014	52,795	59,030	64,974
MI	N	CMPY OFFCL		14,120	14,120	14,120	14,120	14,120	14,120	14,120
MI	N	ISDN PRI		528	1,704	2,160	2,376	2,688	2,976	3,312
MI	N	PBX TRUNKS		10,246	10,727	11,289	11,716	12,056	12,446	12,960
MI	N	SWITCH TOT	656,151	608,736	639,664	662,980	684,213	704,909	725,334	744,980
MI Total Lines			**796,758**	**734,012**	**773,059**	**804,144**	**831,630**	**858,684**	**885,627**	**911,980**
MN	D	CENTREX		1,250	1,300	1,404	1,497	1,577	1,662	1,741
MN	D	CMPY OFFCL		534	534	534	534	534	534	534
MN	D	ISDN PRI		96	192	216	264	312	384	408
MN	D	PBX TRUNKS		590	638	717	733	781	854	855
MN	D	SWITCH TOT	35,419	34,902	36,503	37,996	39,255	40,321	41,267	42,298
MN	N	CENTREX		3,791	4,175	4,576	4,978	5,343	5,703	6,049
MN	N	CMPY OFFCL		1,691	1,691	1,691	1,691	1,691	1,691	1,691
MN	N	ISDN PRI		0	24	24	24	24	24	24
MN	N	PBX TRUNKS		765	754	757	798	830	837	892
MN	N	SWITCH TOT	96,451	90,777	99,474	102,066	104,427	106,622	108,727	110,739
MN Total Lines			**131,870**	**125,679**	**135,977**	**140,062**	**143,682**	**146,943**	**149,994**	**153,037**
MO	D	CENTREX		5,206	5,730	6,195	6,578	6,951	7,298	7,610
MO	D	CMPY OFFCL		2,239	2,239	2,239	2,239	2,239	2,239	2,239
MO	D	ISDN PRI		144	504	840	936	1,032	1,152	1,200
MO	D	PBX TRUNKS		2,508	2,646	2,770	2,859	2,940	3,012	3,071
MO	D	SWITCH TOT	125,653	114,606	127,344	136,371	143,393	149,679	155,502	161,375
MO	N	CENTREX		9,688	10,488	11,940	12,504	13,012	13,485	13,916
MO	N	CMPY OFFCL		5,254	5,254	5,254	5,254	5,254	5,254	5,254
MO	N	ISDN PRI		504	1,128	1,464	1,608	1,776	1,968	1,992
MO	N	PBX TRUNKS		4,173	4,630	4,834	5,210	5,543	5,856	6,151
MO	N	SWITCH TOT	320,117	295,437	313,437	326,156	337,688	348,624	359,435	370,092
MO Total Lines			**445,770**	**410,043**	**440,781**	**462,527**	**481,081**	**498,303**	**514,937**	**531,467**
NC	D	CENTREX		26,059	28,434	30,205	31,394	32,459	33,293	34,105
NC	D	CMPY OFFCL		5,935	5,935	5,935	5,935	5,935	5,935	5,935
NC	D	ISDN PRI		6,144	8,928	10,968	12,864	14,784	16,704	18,624
NC	D	PBX TRUNKS		11,940	12,852	13,865	14,829	15,695	16,387	17,065

NC	D	SWITCH TOT	212,789	200,934	217,114	230,541	240,470	249,802	258,270	266,607
NC	N	CENTREX		5,943	6,392	6,595	6,769	6,937	7,110	7,279
NC	N	CMPY OFFCL		1,511	1,511	1,511	1,511	1,511	1,511	1,511
NC	N	ISDN PRI		48	1,392	1,896	2,424	2,928	3,504	4,056
NC	N	PBX TRUNKS		1,678	1,566	1,590	1,641	1,695	1,746	1,796
NC	N	SWITCH TOT	136,569	133,871	143,398	150,183	155,763	161,220	166,738	172,325
NC Total Lines			**349,358**	**334,805**	**360,512**	**380,724**	**396,233**	**411,022**	**425,008**	**438,932**
NE	N	CENTREX		5,407	5,653	5,848	5,995	6,119	6,242	6,373
NE	N	CMPY OFFCL		1,818	1,818	1,818	1,818	1,818	1,818	1,818
NE	N	ISDN PRI		72	336	528	648	768	888	1,008
NE	N	PBX TRUNKS		980	1,099	1,200	1,295	1,387	1,475	1,556
NE	N	SWITCH TOT	57,563	56,943	59,622	61,452	62,733	63,934	65,143	66,314
NE Total Lines			**57,563**	**56,943**	**59,622**	**61,452**	**62,733**	**63,934**	**65,143**	**66,314**
NM	N	CENTREX		2,246	2,967	3,397	3,664	3,874	4,073	4,247
NM	N	CMPY OFFCL		1,090	1,090	1,090	1,090	1,090	1,090	1,090
NM	N	ISDN PRI		0	288	456	528	576	624	648
NM	N	PBX TRUNKS		1,758	1,678	1,613	1,523	1,460	1,391	1,318
NM	N	SWITCH TOT	97,538	89,637	94,491	98,211	101,170	103,864	106,441	109,189
NM Total Lines			**97,538**	**89,637**	**94,491**	**98,211**	**101,170**	**103,864**	**106,441**	**109,189**
NV	N	CENTREX		2,716	2,893	3,088	3,288	3,508	3,738	3,978
NV	N	CMPY OFFCL		543	543	543	543	543	543	543
NV	N	ISDN PRI		0	96	192	264	336	408	480
NV	N	PBX TRUNKS		597	629	679	729	779	829	879
NV	N	SWITCH TOT	34,990	33,902	37,345	40,971	44,330	47,561	50,743	53,915
NV Total Lines			**34,990**	**33,902**	**37,345**	**40,971**	**44,330**	**47,561**	**50,743**	**53,915**
OH	D	CENTREX		17,003	19,890	22,670	25,179	27,726	30,250	32,737
OH	D	CMPY OFFCL		4,736	4,736	4,736	4,736	4,736	4,736	4,736
OH	D	ISDN PRI		480	1,344	2,136	2,976	3,912	4,848	5,880
OH	D	PBX TRUNKS		5,664	6,567	7,530	8,296	9,042	9,752	10,446
OH	D	SWITCH TOT	290,654	270,896	298,318	314,369	327,587	340,877	353,515	366,618
OH	N	CENTREX		24,675	29,417	33,767	37,678	41,586	45,455	49,225
OH	N	CMPY OFFCL		15,305	15,305	15,305	15,305	15,305	15,305	15,305

OH	N	ISDN PRI		840	2,376	3,336	4,440	5,592	6,864	8,160
OH	N	PBX TRUNKS		10,643	12,787	14,694	15,812	16,723	17,569	18,366
OH	N	SWITCH TOT	632,197	587,710	650,164	673,911	694,820	715,885	735,998	756,199
OH Total Lines			**922,851**	**858,606**	**948,482**	**988,280**	**1,022,407**	**1,056,762**	**1,089,513**	**1,122,817**
OK	D	CENTREX		324	354	386	416	444	472	500
OK	D	CMPY OFFCL		27	27	27	27	27	27	27
OK	D	ISDN PRI		0	0	0	0	0	0	0
OK	D	PBX TRUNKS		17	20	22	24	26	29	31
OK	D	SWITCH TOT	76,502	72,500	90,267	95,902	99,908	102,818	104,827	106,603
OK	N	CENTREX		1,571	1,644	1,748	1,800	1,855	1,896	1,922
OK	N	CMPY OFFCL		1,027	1,027	1,027	1,027	1,027	1,027	1,027
OK	N	ISDN PRI		24	648	1,176	1,440	1,728	2,064	2,160
OK	N	PBX TRUNKS		2,561	2,688	3,018	3,297	3,559	3,795	4,026
OK	N	SWITCH TOT	44,606	42,505	44,303	45,835	47,291	48,633	49,878	51,119
OK Total Lines			**121,108**	**115,005**	**134,570**	**141,737**	**147,199**	**151,451**	**154,705**	**157,722**
OR	D	CENTREX		15,126	16,117	17,374	18,497	19,445	20,278	20,980
OR	D	CMPY OFFCL		3,832	3,832	3,832	3,832	3,832	3,832	3,832
OR	D	ISDN PRI		7,344	11,088	16,176	20,664	24,432	27,888	31,104
OR	D	PBX TRUNKS		13,551	14,065	14,556	14,943	15,290	15,603	15,850
OR	D	SWITCH TOT	391,043	359,391	386,676	412,542	433,041	451,568	468,841	485,238
OR	N	CENTREX		2,141	2,434	2,700	2,949	3,178	3,398	3,614
OR	N	CMPY OFFCL		1,850	1,850	1,850	1,850	1,850	1,850	1,850
OR	N	ISDN PRI		72	384	648	864	1,080	1,296	1,512
OR	N	PBX TRUNKS		1,599	1,695	1,797	1,879	1,960	2,035	2,110
OR	N	SWITCH TOT	107,996	102,477	108,798	114,696	119,734	124,801	129,839	134,738
OR Total Lines			**499,039**	**461,868**	**495,474**	**527,238**	**552,775**	**576,369**	**598,680**	**619,976**
PA	D	CENTREX		406	507	559	579	596	613	629
PA	D	CMPY OFFCL		222	222	222	222	222	222	222
PA	D	ISDN PRI		0	0	0	0	0	0	0
PA	D	PBX TRUNKS		80	68	87	125	150	164	183
PA	D	SWITCH TOT	12,589	12,131	13,623	13,937	14,159	14,365	14,544	14,732
PA	N	CENTREX		39,662	48,210	56,051	63,266	69,690	76,598	83,988

PA	N	CMPY OFFCL		13,119	13,119	13,119	13,119	13,119	13,119	13,119
PA	N	ISDN PRI		1,968	4,176	7,008	10,104	13,392	16,248	19,800
PA	N	PBX TRUNKS		16,940	19,162	20,234	21,798	23,374	24,958	26,454
PA	N	SWITCH TOT	663,907	641,845	719,950	746,617	767,400	789,094	810,427	833,255
PA Total Lines			**676,496**	**653,976**	**733,573**	**760,554**	**781,559**	**803,459**	**824,971**	**847,987**
SC	D	CENTREX		521	608	653	693	734	776	817
SC	D	CMPY OFFCL		86	86	86	86	86	86	86
SC	D	ISDN PRI		24	192	336	456	624	792	960
SC	D	PBX TRUNKS		387	423	441	456	473	488	501
SC	D	SWITCH TOT	23,318	21,779	25,100	27,381	28,940	30,444	31,919	33,342
SC	N	CENTREX		6,590	7,314	8,236	8,889	9,484	10,115	10,727
SC	N	CMPY OFFCL		3,720	3,720	3,720	3,720	3,720	3,720	3,720
SC	N	ISDN PRI		1,080	2,040	2,856	3,552	4,488	5,424	6,360
SC	N	PBX TRUNKS		4,768	5,282	5,756	6,250	6,633	7,007	7,368
SC	N	SWITCH TOT	203,207	180,938	193,884	204,090	211,386	219,048	226,443	234,054
SC Total Lines			**226,525**	**202,717**	**218,984**	**231,471**	**240,326**	**249,492**	**258,362**	**267,396**
TX	D	CENTREX		32,908	37,490	42,968	46,243	49,052	52,185	55,513
TX	D	CMPY OFFCL		3,612	3,612	3,612	3,612	3,612	3,612	3,612
TX	D	ISDN PRI		1,248	2,592	3,504	3,816	4,104	4,440	4,728
TX	D	PBX TRUNKS		7,259	8,138	8,473	8,752	8,968	9,193	9,412
TX	D	SWITCH TOT	1,016,225	915,879	1,032,669	1,080,596	1,116,495	1,148,825	1,178,503	1,207,008
TX	N	CENTREX		125,838	146,299	166,391	180,132	188,533	196,874	205,475
TX	N	CMPY OFFCL		28,728	28,728	28,728	28,728	28,728	28,728	28,728
TX	N	ISDN PRI		7,752	15,240	20,832	24,360	27,264	29,736	32,208
TX	N	PBX TRUNKS		46,496	50,199	51,305	52,249	52,837	53,368	54,162
TX	N	SWITCH TOT	1,075,756	1,033,634	1,116,916	1,165,219	1,202,983	1,232,369	1,262,156	1,289,656
TX Total Lines			**2,091,981**	**1,949,513**	**2,149,585**	**2,245,815**	**2,319,478**	**2,381,194**	**2,440,659**	**2,496,664**
VA	D	CENTREX		16,697	17,338	18,313	19,109	19,761	20,314	20,750
VA	D	CMPY OFFCL		3,983	3,983	3,983	3,983	3,983	3,983	3,983
VA	D	ISDN PRI		4,128	6,408	8,568	10,512	12,024	13,200	14,304
VA	D	PBX TRUNKS		5,244	5,960	6,279	6,479	6,565	6,567	6,486
VA	D	SWITCH TOT	366,578	333,616	381,150	405,093	426,338	445,318	462,991	479,654

VA	N	CENTREX		16,581	18,037	19,303	20,287	21,125	21,931	22,666
VA	N	CMPY OFFCL		4,440	4,440	4,440	4,440	4,440	4,440	4,440
VA	N	ISDN PRI		744	1,704	2,472	3,048	3,528	3,960	4,320
VA	N	PBX TRUNKS		3,512	3,599	3,791	3,930	4,020	4,049	4,044
VA	N	SWITCH TOT	241,891	233,271	253,662	265,321	275,054	283,848	291,939	299,494
VA Total Lines			**608,469**	**566,887**	**634,812**	**670,414**	**701,392**	**729,166**	**754,930**	**779,148**
WA	D	CENTREX		36,301	43,289	51,529	57,769	61,801	65,471	68,402
WA	D	CMPY OFFCL		10,318	10,334	10,334	10,334	10,334	10,334	10,334
WA	D	ISDN PRI		10,992	18,192	24,720	29,904	34,584	38,856	42,120
WA	D	PBX TRUNKS		14,535	14,035	14,051	13,756	13,597	13,499	13,357
WA	D	SWITCH TOT	587,937	540,393	588,366	630,595	660,978	686,288	710,048	731,049
WA	N	CENTREX		11,510	12,562	13,894	15,131	16,282	17,370	18,376
WA	N	CMPY OFFCL		4,121	4,113	4,113	4,115	4,117	4,121	4,124
WA	N	ISDN PRI		3,528	5,664	7,104	8,568	10,488	12,720	15,336
WA	N	PBX TRUNKS		5,270	5,605	5,997	6,389	6,789	7,222	7,667
WA	N	SWITCH TOT	322,604	300,352	337,605	355,923	372,500	389,936	408,122	427,259
WA Total Lines			**910,541**	**840,745**	**925,971**	**986,518**	**1,033,478**	**1,076,224**	**1,118,170**	**1,158,308**
WI	D	SWITCH TOT	0	0	0	0	0	0	0	0
WI	N	CENTREX		9,998	13,578	17,276	21,044	24,903	28,835	32,807
WI	N	CMPY OFFCL		8,648	8,648	8,648	8,648	8,648	8,648	8,648
WI	N	ISDN PRI		24	360	816	1,056	1,320	1,584	1,848
WI	N	PBX TRUNKS		10,235	11,443	12,598	13,834	15,085	16,339	17,612
WI	N	SWITCH TOT	509,283	485,681	515,017	535,349	556,597	577,889	599,985	622,649
WI Total Lines			**509,283**	**485,681**	**515,017**	**535,349**	**556,597**	**577,889**	**599,985**	**622,649**

GTE
BH LNP ATTEMPTS

GTE ATTACHMENT 4
CHART B

State	BH Call Attempts	Working Lines	Average Att./Line	Weighted Att./Line	Pct. Intraoffice	Pct. InterLATA	Wtd. % InterLATA
	(A)	(B)	(C)=A/B	(D)	(E)	(F)	(G)
AL	414,243	288,334	1.44	0.0209	15%	37.85%	0.55%
AR	282,752	226,629	1.25	0.0143	15%	37.24%	0.43%
AZ	11,006	9,354	1.18	0.0006	15%	17.79%	0.01%
CA	7,108,014	4,718,246	1.51	0.3584	15%	17.79%	4.23%
FL	3,415,786	2,481,961	1.38	0.1722	15%	18.48%	2.31%
HI	1,119,768	761,955	1.47	0.0565	15%	19.12%	0.73%
IA	243,217	285,948	0.85	0.0123	15%	27.16%	0.39%
ID	165,982	138,875	1.20	0.0084	15%	27.16%	0.19%
IL	875,186	930,978	0.94	0.0441	15%	36.19%	1.70%
IN	1,165,794	981,698	1.19	0.0588	15%	27.16%	1.34%
KY	873,816	527,110	1.66	0.0441	15%	32.17%	0.86%
MI	758,266	796,758	0.95	0.0382	15%	27.72%	1.11%
MN	98,944	131,870	0.75	0.0050	15%	30.11%	0.20%
MO	443,295	445,770	0.99	0.0224	15%	30.74%	0.69%
NC	425,203	349,358	1.22	0.0214	15%	21.06%	0.37%
NE	51,757	57,563	0.90	0.0026	15%	27.16%	0.08%
NM	140,273	97,538	1.44	0.0071	15%	17.47%	0.09%
NV	25,934	34,990	0.74	0.0013	15%	17.79%	0.03%
OH	923,874	922,851	1.00	0.0466	15%	25.59%	1.19%
OK	164,675	121,108	1.36	0.0083	15%	21.36%	0.13%
OR	615,276	499,039	1.23	0.0310	15%	19.43%	0.49%
PA	771,663	676,496	1.14	0.0389	15%	27.70%	0.94%
SC	290,814	226,525	1.28	0.0147	15%	32.07%	0.37%
TX	2,933,875	2,091,981	1.40	0.1479	15%	17.47%	1.84%
VA	508,756	608,469	0.84	0.0257	15%	32.17%	0.99%
WA	1,109,420	910,541	1.22	0.0559	15%	16.89%	0.78%
WI	333,360	509,283	0.65	0.0168	15%	18.90%	0.49%
Total	25,270,949	19,831,228	**Avg. Att/Line**	**1.2743**	**15%**		**22.53%**

GTE SCP Capacity Level
Prepared by: L. Lambert
C:\RESTOR_D\ATTACH\[LNPchtc.xls]Chart C - Capacity Queries

26-Mar-99
03:26 PM

Capacity Queries per Second 9911
(10080000 octets per link / 113 octets per query) * 400 links / 3600 sec/hr

GTE Attachment 4
Chart C

Capacity	Bus Case QPS 8 SCP's	QPS Based On Busy Hour Traffic	Bus Case Annual Queries 2001
Total (9911 over 8 SCP Pairs)	9,911	9,911	130,230,540,000
GTE Internal	4,259	4,430	55,958,040,000
Default Query	15	19	191,575,104
Wholesale Query	501	677	6,583,572,221
Excess Capacity	5,137	4,785	67,497,352,675

Formula to annualize and not take to peak (used for Bus Case)

queries x 60 seconds
x 60 minutes
x 10 hours
x 365 days

Wholesale Query - Bus Case

Pct of Capacity	SCP	MSA Population		1999	2000	2001	2002	2003
				26,147,348	2,507,076,840	6,583,572,221	8,488,590,144	11,335,707,222
100.0%	Ontario	14,332,000	11%	2,981,492	285,873,381	750,702,181	967,924,846	1,292,571,851
44.7%	Santa Monica	15,068,000	12%	3,134,603	300,554,012	789,253,451	1,017,631,286	1,358,950,087
0.2%	Florida	9,371,000	7%	1,949,453	186,918,745	490,847,763	632,879,133	845,150,071
6.8%	Hawaii	874,000	1%	181,819	17,433,250	45,779,633	59,026,397	78,824,156
	North	35,196,000	28%	7,321,840	702,037,365	1,843,546,884	2,376,994,341	3,174,250,548
	Texas	18,174,000	14%	3,780,746	362,507,872	951,944,001	1,227,397,862	1,639,073,459
	Virginia	27,003,000	21%	5,617,446	538,615,609	1,414,402,106	1,823,672,525	2,435,341,731
	Washington	5,672,000	5%	1,179,949	113,136,605	297,096,202	383,063,754	511,545,321
		125,690,000	100%	26,147,348	2,507,076,840	6,583,572,221	8,488,590,144	11,335,707,222

Default Query - Bus Case

			1999	2000	2001	2002	2003
			276,637,300	342,874,385	191,575,104	211,243,596	252,086,712
Ontario	14,332,000	11%	31,544,003	39,096,791	21,844,653	24,087,384	28,744,584
Santa Monica	15,068,000	12%	33,163,902	41,104,553	22,966,455	25,324,358	30,220,722
Florida	9,371,000	7%	20,625,095	25,563,496	14,283,159	15,749,572	18,794,690
Hawaii	874,000	1%	1,923,630	2,384,217	1,332,140	1,468,907	1,752,914
North	35,196,000	28%	77,464,607	96,012,466	53,645,297	59,152,913	70,589,895
Texas	18,174,000	14%	40,000,050	49,577,525	27,700,580	30,544,523	36,450,186
Virginia	27,003,000	21%	59,432,230	73,662,479	41,157,630	45,383,172	54,157,829
Washington	5,672,000	5%	12,483,784	15,472,858	8,645,190	9,532,769	11,375,892
	125,690,000	100%	276,637,300	342,874,385	191,575,104	211,243,596	252,086,712
			62,733,187,325	0.89200			
			302,784,648		302,784,648		

GTE Internal Query - Bus Case

			1999	2000	2001	2002	2003
			2,500,792,179	23,538,629,789	55,958,040,000	58,210,200,000	95,707,178,806
Ontario	14,332,000	11%	285,156,763	2,684,029,295	6,380,703,551	6,637,509,638	10,913,161,641
Santa Monica	15,068,000	12%	299,800,593	2,821,863,901	6,708,375,740	6,978,369,748	11,473,591,935
Florida	9,371,000	7%	186,450,183	1,754,956,637	4,172,032,722	4,339,945,773	7,135,587,339
Hawaii	874,000	1%	17,389,549	163,678,594	389,110,724	404,771,380	665,510,974
North	35,196,000	28%	700,277,520	6,591,340,712	15,669,497,779	16,300,152,750	26,800,142,137
Texas	18,174,000	14%	361,599,149	3,403,540,916	8,091,187,994	8,416,836,461	13,838,668,690
Virginia	27,003,000	21%	537,265,425	5,056,994,353	12,021,918,642	12,505,768,403	20,561,547,850
Washington	5,672,000	5%	112,852,997	1,062,225,381	2,525,212,848	2,626,845,846	4,318,968,241
	125,690,000	100%	2,500,792,179	23,538,629,789	55,958,040,000	58,210,200,000	95,707,178,806

Excess Capacity Calculation:
(Based on busy hour traffic)

Year 2000		GTE Internal	Default	Wholesale	Total	Total Capacity	2001 Excess Capacity
Ontario	11%	505	2	77	584		-584
Santa Monica	12%	531	2	81	615		-615
Florida	7%	330	1	50	382		-382
Hawaii	1%	31	0	5	36		-36
North	28%	1,240	6	190	1,435		-1435
Texas	14%	641	3	98	742		-742
Virginia	21%	952	4	146	1,102		-1102
Washington	5%	200	1	31	231		-231
Total	100%	4,430	20	677	5,127	9,911	4,784

Functional Area	OSS Name	OSS Description	Description of LNP Adaptations	EU	WS Query	Default Query	2003	EU	WS Query	Default Query
	Network Profile System (NPS)	NPS provides data that is passed to the financial system for general ledger booking activity and financial reporting. NPS also provides analysis support through the interface extract function, which enables the user to gather customer, line, and equipment data, messages, and minutes of use, for traffic studies.	Accepts and processes LNP data on billing file input. Identifies LRN and native/non-native telephone number attributes for use in revenue assignment							
	NPS									
	Other Carrier Settlement System (OCSS)	OCSS provides file receipt and settlement reports to the non-AT&T carriers. OCSS tracks invoice ready and Casual User revenue that GTE will collect for all non-AT&T carriers.	Changes the settlement process to handle ported telephone numbers. Accepts and processes LNP data on billing file input. Modifies logic to direct settlements to proper carrier based on porting activity according to industry standards.							
	Secure Integrated Gateway System (SIGS)	SIGS is an application that captures ownership information regarding end user accounts and telephone numbers for processing in ordering and billing systems.	Captures LNP information (service provider ID, effective date, etc.) from LSMS to local table for all ported telephone numbers, for processing within the Billing systems, e.g., to screen usage data.							
	Toll Error Message Processing On-Line (TEMPO)	TEMPO provides an efficient means of investigating and correcting all TOLL messages, which err during the CBSS usage processing.	Process new LNP related error messages associated with ported telephone numbers							
	Usage Messaging System (UMS)	UMS processes usage billing data from the GTE switching environment (1350 sites). It retrieves, formats, conditions, validates, edits, screens, provides error correction and aggregates usage for down stream billing systems. Forwards inter-LATA toll to proper carrier.	Processes new AMA record formats that were implemented with LNP, and adds LRN where needed. UMS provides logic to interrogate LSMS information to identify service provider for ported telephone numbers.							
	UMS									
				$1,583,099.70	$101,340.00	$4,560.30	$1,751,000.00	$1,641,212.30	$105,060.00	$4,727.70
				EU	WS	Default		EU	WS	Default
				$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
				$1,583,099.70	$101,340.00	$4,560.30	$1,751,000.00	$1,641,212.30	$105,060.00	$4,727.70
				0.00%	0.00%	0.00%		0.00%	0.00%	0.00%
				93.73%	6.00%	0.27%		93.73%	6.00%	0.27%

LNP
Busy Hour Queries

GTE ATTACHMENT 4
CHART D

YEAR	Deployed Lines	BH Call Attempts	GTE Internal Queries (Interoffice/IntraLATA)	Default Queries	Pct. BH Capacity	Wholesale Queries	Pct BH Capacity
	(A)	(B)	(C=B*(100%-H-I))/3600	(D)	E=D/J	(F)	(Γ)
1999	10,979,004	13,990,553	2,428	28	0.287%	3	0.027%
2000	14,056,901	17,912,720	3,108	35	0.356%	258	2.602%
2001	20,096,765	25,609,323	4,444	20	0.199%	677	6.834%
2002	21,885,902	27,889,222	4,840	22	0.219%	873	8.812%
2003	22,574,671	28,766,921	4,992	26	0.262%	1,166	11.767%
Total		114,168,739	19,811	131	0.265%	2,977	6.01%

Wtd. Avg. Pct. Intraoffice	15%	(H)
Wtd. Avg. Pct. InterLATA	22.53%	(I)
Busy Hour Query Capacity	9,911	(J)
Avg. BH-Full Day Ratio	0.0827	(K)