

**NASC/SMS SERVICE ELEMENTS – DISTRIBUTION OF DEFERRED COSTS**

ITEM NO	DEFERRED COSTS	CUST REC		TRANSLATION & VALIDATION (C)	DATA BASE ADMIN & SUPPORT (D)	SERVICE ESTABL (3) (E)	REPORTS (special) (G)	MGI TEST & DEVELOP (J)	TOTAL (7) (K=A TH J)
		ADMINISTR (A)	SMS ACCESS (B)						
1	DATA CENTER UPGRADE (1)	9,568,168	2,998,951	170,540	1,251,233	13592	10850.00	–	14,013,134
2	NASC TRANSITION ACTIVITIES (2)	769,989	67,572	4,465	129,390	20837	–	–	992,254
3	NASC BILLING SYSTEM (3)	1,443,783	298,918	39,980	278,200	7,278	1,595	51,753	2,121,507
4	MGI DEVELOPMENT (4) MGI TESTING (4)	–	–	–	–	–	–	2,131,658 1,463,000	2,131,658 1,463,000
5	SOFTWARE ENHANCEMENTS (5)	3,520,000	–	–	110,000	–	–	–	3,630,000
6	TOTAL	15,301,940	3,365,441	214,985	1,768,823	41,707	12,445	3,646,411	24,351,553

**NOTES:**

- (1) SOURCE: EXHIBIT 1, LINE 16A, (DISTRIBUTION OF DATA CENTER NORMAL COST)
- (2) SOURCE: EXHIBIT 5, LINE 7, (DISTRIBUTION OF NASC COSTS)
- (3) SOURCE: EXHIBIT 8, COLUMN L, (DISTRIBUTION OF TOTAL COSTS)
- (4) SOURCE: EXHIBIT 2 (MAIN TEXT), LINE 9 AND LINE 10, COLUMN 'NPV'
- (5) SOURCE: EXHIBIT 2 (MAIN TEXT), LINE 11, COLUMN 'NPV'

1993–1997 COSTS (NPV)

ITEM NO	SERVICE/RATE ELEMENTS	NASC OPERATION \$13,215,357 (A)*	3RD PARTY START-UP \$1,477,201 (B)*	DATA CENTER OPERATION \$78,010,516 (C)*	SOFTWARE SUPPORT \$32,421,756 (D)*	DATA CENTER UPGRADE \$14,013,134 (E)*	NASC TRANSITION \$992,254 (F)*	COST SUBTOTAL 140,130,218
1	<u>CUSTOMER RECORD ADMINISTR</u>	10,255,117	1,146,308	53,265,580	21,756,619	9,568,168	769,989	96,761,781
	<u>SMS ACCESS</u>							
2A	DIAL-UP (2.4 & 9.6 KBPS)	573,998	64,161	2,546,994	–	457,520	43,097	3,685,770
2B	9.6 DEDICATED	114,098	12,754	4,429,192	–	795,622	8,567	5,360,233
2C	9.6 DEDICATED (SCP)	184,610	20,636	7,166,676	–	1,287,360	13,861	8,673,143
2D	56.0 DEDICATED (MGI)	27,260	3,047	2,552,169	–	458,450	2,047	3,042,973
	<u>DATA BASE RECORD TRANSLATION AND VALIDATION</u>							
3A	– NETWORKS (SCP)	59,469	6,647	949,388	1,586,397	170,540	4,465	2,776,906
4	<u>DATA BASE ADMINISTRATION SUPPORT AND NET MGMT SVCS (SCP)</u>	1,723,283	192,627	6,965,559	8,950,998	1,251,233	129,390	19,213,090
	<u>SERVICE ESTABLISHMENT</u>							
5A	– FIRST (non-recurring)	138,761	15,511	37,835	43,445	6,796	10,419	252,767
5B	– EACH ADDITIONAL (non-recurring)	138,761	15,511	37,835	43,445	6,796	10,419	252,767
6	<u>REPORTS</u>	–	–	59,288	40,851	10,650	–	110,789
9	<u>MGI DEVELOPMENT MGI TESTING</u>	–	–	–	–	–	–	–
10	<u>TOTAL BUDGET ELEMENT COSTS</u>	13,215,357	1,477,202	78,010,516	32,421,755	14,013,135	992,254	140,130,219

\* NOTES:

SOURCE FOR VALUES IN COLUMN HEADINGS: EXHIBIT 2 (MAIN TEXT)  
 COL A SOURCE: EXHIBIT 5, LINE 7 AND NOTE 3; EXHIBIT 2, COLUMN G.  
 COL B SOURCE: EXHIBIT 5, LINE 7 AND NOTE 3; EXHIBIT 2, COLUMN G.  
 COL C SOURCE: EXHIBIT 5, NOTE 2; EXHIBIT 1, LINE 16A; EXHIBIT 2, COLUMN E.  
 COL D SOURCE: EXHIBIT 5, NOTE 2; EXHIBIT 6, LINE 4.

NASC/SMS – DISTRIBUTION OF TOTAL COSTS (1993–1997)

1993–1997 COST (NPV)

ITEM NO	SERVICE/RATE ELEMENTS	BILL/800 SYSTEM \$2,121,507 (G)*	MGI DEVELOPMENT \$2,131,658 (H)*	MGI TESTING \$1,463,000 (I)*	SOFTWARE ENHANCE \$3,630,000 (J)*	SUBTOTAL (PAGE 1) 140,130,218	TOTAL COST 149,476,383 (K=A TH J)*	% DISTRB TOTAL COSTS (L=K/KTOT)
1	<u>CUSTOMER RECORD ADMINISTR</u>	1,443,783	-	-	3,520,000	96,761,781	101,725,564	68.055%
	<u>SMS ACCESS</u>							
2A	DIAL-UP (2.4 & 9.6 KBPS)	53,065	-	-	-	3,685,770	3,738,835	2.501%
2B	9.6 DEDICATED	77,173	-	-	-	5,360,233	5,437,406	3.638%
2C	9.6 DEDICATED (SCP)	124,870	-	-	-	8,673,143	8,798,013	5.886%
2D	56.0 DEDICATED (MGI)	43,810	-	-	-	3,042,973	3,086,783	2.065%
	<u>DATA BASE RECORD TRANSLATION AND VALIDATION</u>							
3A	- NETWORKS (SCP)	39,980	-	-	-	2,776,906	2,816,885	1.885%
4	<u>DATA BASE ADMINISTRATION SUPPORT AND NET MGMT SVCS (SCP)</u>	278,200	-	-	110,000	19,213,090	19,601,290	13.113%
	<u>SERVICE ESTABLISHMENT</u>							
5A	- FIRST (non-recurring)	3,639	-	-	-	252,767	256,406	0.172%
5B	- EACH ADDITIONAL (non-recurring)	3,639	-	-	-	252,767	256,406	0.172%
6	<u>REPORTS</u>	1,595	-	-	-	110,789	112,384	0.075%
9	<u>MGI DEVELOPMENT</u>	30,690	2,131,658	-	-	-	2,162,348	1.447%
	<u>MGI TESTING</u>	21,063	-	1,463,000	-	-	1,484,063	0.993%
10	<u>TOTAL BUDGET ELEMENT COSTS</u>	2,121,507	2,131,658	1,463,000	3,630,000	140,130,219	149,476,384	100.000

COL E SOURCE: EXHIBIT 5, NOTE 2; EXHIBIT 1, LINE 16A; EXHIBIT 2, COLUMN E.  
 COL F SOURCE: EXHIBIT 5, LINE 7 AND NOTE 3; EXHIBIT 2, COLUMN G.  
 COL G SOURCE: EXHIBIT 8, PAGE 2, COLUMN L  
 COL H & I SOURCES: EXHIBIT 7, LINE 4.  
 COL J SOURCE: EXHIBIT 7, LINE 5.  
 COL K: 5 YEAR COST (NPV)  
 COL L: DISTRIBUTION OF TOTAL COST COL K LESS COLG (BILLING COST)

NASC/800 COST RECOVERY – UNIT COST DEVELOPMENT – 5 YEAR STUDY

<u>ITEM NO</u>	<u>SERVICE/RATE ELEMENTS</u>	<u>TOTAL COST (A)*</u>	<u>TOTAL DEMAND UNITS (B)*</u>	<u>UNIT COST/RATE (C=A/B)</u>	<u>APPLICATION</u>
1	<u>800 CUSTOMER RECORD ADMINISTRATION</u>	101,725,564	136,695,959	0.744	PER RECORD PER MONTH
	<u>SMS ACCESS</u>				(PER DATA LINK)
2A	DIAL-UP (2.4 & 9.6 KBPS)	3,738,835	12,527	298.462	PER MONTH
2B	9.6 DEDICATED	5,437,406	2,490	2,183.697	PER MONTH
2C	56.0 DEDICATED (MGI)	3,086,783	595	5,187.871	PER MONTH
	<u>SERVICE ESTABLISHMENT</u>				
3A	- FIRST (non-recurring)	256,406	167	1,535.365	PER REQUEST
3B	- EACH ADDITIONAL (non-recurring)	256,406	591	433.851	PER REQUEST
4	<u>CUSTOMER REPORTS</u>	112,384	2,839	39.586	PER REPORT
	<u>MECHANIZED INTERFACE TESTING</u>				
5A	MGI DEVELOPMENT	2,162,348	7	308,906.857	PER CUSTOMER
5B	MGI TESTING	<u>1,484,063</u>	7	212,009.000	PER CUSTOMER
6	TOTAL COST	\$118,260,195			

## \* NOTES:

COL A SOURCE: EXHIBIT 8, COLUMN K.

COL. B SOURCE: EXHIBIT 2 (MAIN TEXT) NASC/SMS ANNUAL DEMAND DATA, NPV.

## Costs (Budget Elements)

NASC/SMS costs to be recovered consist of expenditures for ongoing operations from May 1, 1993 to December 31, 1997 and additional extraordinary costs incurred for the start of national 800 Service. Virtually all of the costs are expense items for NASC personnel (with related normal loadings such as benefits, space, capital equipment, etc.), software development and contractual obligations for the Data Center operation and its backup.

Specific ongoing operational costs for NASC/SMS are:

### NASC

The Service Center currently provides overall management of SMS/800. NASC is responsible for administration of the SMS/800 and the BILL/800 system. NASC is the client contact for 800 Service Providers and SCP Operators. The NASC also provides a "help desk" function for SMS/800 users that is staffed on-site from 8AM to 8PM, Monday through Friday, and via a beeper system at other times. Costs also include support for NASC User Groups, industry fora, and client information creation and distribution. The net present value (NPV) of this cost for 1993-1997 is \$11,806,556.

### Data Center Operation

This item represents the SMS's share of the total cost of the data center and its backup for the five year period. The NPV of this cost is \$78,010,516.

### Bellcore SMS/800 Software Support

This item includes the provision of software maintenance, computer site support and software development for new features requested by NASC/SMS customers. The NPV of costs for the five year study period is \$32,421,756.

### Upgrading of Data Center

This item reflects the incremental costs incurred prior to cutover to national 800 Service hardware in the data center. It includes increased processor capabilities; leasing costs; upgraded network access equipment to accommodate Service Providers; increased data storage capability; other computer center hardware; and the installation of new computer hardware and software. This cost will be incurred prior to the May 1, 1993 introduction of national 800 Service. The cost is \$14,013,134.

### Bellcore NASC Transition Activities

This item reflects Bellcore costs related to the transition of NASC to an independent administrator and assurance of NASC operational readiness. These costs will be incurred prior to May 1, 1993. The cost of this item is \$992,254.

### Development of Enhanced NASC/SMS Billing Capability

Significant changes to the billing capabilities of the NASC, will be required to permit billing of a rate structure that can satisfy its customers in a fully operational environment. Total cost of this item is \$2,121,507.

### MGI Development and Testing

The MGI permits a customer's operating system to interact with the SMS/800 to perform activities that include creation, changing or disconnection of service records for 800 numbers. This capability was specifically requested by certain service providers and requires customized testing with each service provider that will use MGI. The MGI development cost is \$2,131,658 and will be incurred prior to cutover. The testing cost is expected to be \$1,463,000.

### Software Enhancements

This item includes the cost of developing new and modified features and functions requested by customers in the SMS/800. The total cost of this item is \$3,630,000.

### Third-Party Start-Up Costs

The transition costs included in this item is \$2,049,081.

### Miscellaneous Services

Costs for Miscellaneous Services provided by SMS/800 were identified as follows:

**Batch Update:** This includes the cost to manually load a tape at the 800/SMS and prepare paper documentation. The cost per tape is \$72.

**Out-of-Hours Assistance:** This element recovers the cost for customer requests during out-of-hour coverage. The cost is based on the annual labor rate for the NASC personnel. The cost per fifteen minute interval is \$20.78.

**Additional Mechanized Generic Testing:** The cost of additional MGI testing, subsequent to initial testing is based on Bellcore's rate for productive time. The rate is \$179 per hour or \$1339 per day.

## ATTACHMENT 2

(Source: SMS/800 Tariff No. 1, Transmittal 2,  
Exhibit 2, filed April 8, 1993)

ANNUAL SMS/800 COSTS (NPV)

<u>ITEM NO</u>	<u>DESCRIPTION</u>	<u>NPV</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>
1	NASC OPERATION	13,215,357	3,827,000	3,301,254	3,287,004	3,386,504	3,490,835
2	3RD PARTY START-UP	1,477,201	1,586,000	0	0	0	0
3	DATA CENTER OPERATION	78,010,516	13,501,734	21,265,362	22,328,630	23,445,062	24,617,315
4	BELLCORE SOFTWARE SUPPORT	<u>32,421,756</u>	<u>7,000,000</u>	<u>10,500,000</u>	<u>8,400,000</u>	<u>8,400,000</u>	<u>8,400,000</u>
5	SUB-TOTAL (LNS 1+2+3+4)	\$125,124,830	\$25,914,734	\$35,066,616	\$34,015,634	\$35,231,566	\$36,508,150
<u>HOLDING ACCOUNT COSTS</u>							
6	DATA CENTER UPGRADE	14,013,134	0	0	0	0	0
7	NASC TRANSITION	992,254	0	0	0	0	0
8	BILLING CAPABILITY/800 SYSTEM	2,121,507	0	0	0	0	0
9	MGI DEVELOPMENT	2,131,658	0	0	0	0	0
10	MGI TESTING	1,463,000	0	0	0	0	0
11	SOFTWARE ENHANCEMENT	<u>3,630,000</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
12	SUB-TOTAL	24,351,553	0	0	0	0	0
13	TOTAL BUDGET DOLLARS (L5 + L1)	<u>149,476,383</u>	\$25,914,734	\$35,066,616	\$34,015,634	\$35,231,566	\$36,508,150

### ATTACHMENT 3

(Source: SMS/800 Tariff No. 1, Transmittal 2,  
Exhibit 3, filed April 8, 1993)

SMS/800 ANNUAL DEMAND DATA

<u>ITEM NO</u>	<u>SERVICE/RATE ELEMENTS</u>	<u>NPV</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>
1	<u>CUSTOMER RECORDS - (1)</u>	136,695,959	21,490,000	35,347,000	38,944,600	42,911,395	47,285,719
	<u>SMS ACCESS (1)</u>						
2A	DIAL-UP (2.4 & 9.6 KBPS) (RO)	12,527	2,341	3,600	3,600	3,600	3,600
2B	9.6 DEDICATED (RESP ORG)	2,490	468	700	715	730	750
2C	56.0 DEDICATED (MGI) (RESP ORG)	595	101	160	180	180	180
	<u>SERVICE ESTABLISHMENT (2)</u>						
3A	- FIRST (NONRECURRING)	167	32	48	48	48	48
3B	- EACH ADDITIONAL (NONRECURRING)	591	265	120	120	120	120
4	<u>CUSTOMER REPORTS (2)</u>	2,839	600	840	780	780	780
5	<u>MGI TESTING &amp; DEVELOPMENT (2)</u>	7	5	2	0	0	0

NOTES:

- (1) This rate element is a monthly recurring charge. The demand indicated for the years 1994-1997 reflects average monthly demand multiplied by 12 months. The 1993 demand is multiplied by 8 months to reflect the period from May 1 - December 31, 1993.
- (2) This rate element is a one-time nonrecurring charge applied for each unit of demand. The demand shown for 1993-1997 reflects the cumulative demand for one year (8 months for 1993).
- (3) The above is based on current customer activity and information provided by the NXX assignees.
- (4) % RESP ORG LOGONS = 87.068% (4356/5003); % SCP LOGONS = 12.932% (647/5003), BASED ON 1993 DEMAND

## ATTACHMENT 4

(Source: BOCs Reply To Petition To Reject Or  
Suspend and Investigate The BOCs  
Transmittal No. 1 for SMS/800 Access  
Tariff No. 1, filed April 8, 1993)

## COSTS (BUDGET ELEMENTS)

NASC/SMS costs consist of expenditures for ongoing operations from May 1, 1993 to December 31, 1997, as well as extraordinary costs incurred for the start-up of national 800 Service. Virtually all of the costs are expense items for NASC personnel (with related normal loadings such as benefits, space, equipment, etc.), software development and the SMS/800 portion of the data center.

### Number Administration and Service Center (NASC)

The Service Center provides overall management of SMS/800. NASC is responsible for administration of the SMS/800 service and the BILL/800 billing system. NASC is the client contact for 800 Service Providers and SCP Operators. The NASC also provides a "help desk" function for SMS/800 users that is staffed on-site from 8AM to 8PM, Monday to Friday, and via a beeper system at all other times. Costs also include support for client information creation and distribution. The cost for 1993-1997 is \$13,215,357.

### Data Center Operation

This item represents the SMS/800's share of the total cost of the data center and its backup for the five year period. Specific components included are:

#### *Hardware*

This item consists of Central Processors, Tape Drives, Disk Drives, Network Hardware, and Miscellaneous Hardware. Hardware used only for SMS/800 (Disk Drives and Network Hardware) is allocated directly to SMS/800; shared hardware is allocated on the basis of System Management Facility (SMF) usage statistics.

#### *Software*

This item consists of IBM standard environment (vendor) software, annual non-IBM software, and network software. Expenses for software used only for SMS/800 is allocated directly to SMS/800. Shared software is allocated on the basis of relative usage.

#### *Personnel*

This item consists of the portion of data center personnel that support SMS/800 applications/functions. Allocations of common functions are based on resource utilization statistics (CP, Tape, Print). Personnel that support only SMS/800 are allocated directly to SMS/800.

*Network*

This item consists of network equipment facilities such as NSC DX hardware, Loop Facilities, T3 Circuits, Telephone Service for dial-up access, and CLD Cables. All of these items are dedicated exclusively for SMS/800 use.

*Floorspace*

This item consists of expenses associated with use of floor space such as heating, maintenance and cleaning. Administrative space allocated to SMS/800 consists of approximately 43% of total space. Computer area floorspace is allocated in accordance with Central Processor usage.

*Investment*

This item consists of the annual capital carrying charge applied to investment items used for SMS/800. These items include Network and Token Ring Monitoring Equipment, 7171 Controllers, Workstations, Automatic Tape Loaders and other miscellaneous capital items.

*Miscellaneous*

This includes items such as: microfiche processing, printer supplies, tape supplies, 4670 and 3480 Media, telephone service, and office supplies and equipment. Costs allocated to SMS/800 are approximately 43% of 1993 data center miscellaneous costs.

The cost of the data center for the five-year period is \$78,010,516.

**Bellcore SMS/800 Software Support**

This includes the provision of software maintenance, computer site support and software development for new features requested by NASC/SMS customers. Specific support items in the maintenance budget include:

*Software Releases*

This item consists of support for the delivery of semi-annual software releases, monthly maintenance releases and special releases for high severity maintenance requests.

### *Maintenance Requests (MRs)*

This item covers support needed to resolve problems that require software changes. It includes field support personnel as well as design, development and testing necessary to implement solutions.

### *Network Affecting (Keep Current) Enhancements*

This item covers ongoing enhancements required as changes occur in the 800 network. These keep-current enhancements are planned for and implemented under the maintenance budget. A few illustrative examples of typical enhancements are:

- Carrier Identification Code (CIC) expansion to increase the number of possible CIC combinations.
- Expansion of the CCS Network Limit to accommodate additional networks.
- Increasing the size of the customer record sent to the SCP to accommodate NASC customers' requirements.
- Mass changes to support CIC changes (e.g., consolidations).

### *Environmental Software Upgrades*

This item covers periodic upgrades of SMS/800 environmental software, such as IMS, MVS, FOCUS and PI/1

### *Performance-Related Maintenance*

This item covers SMS/800 source code changes needed as SMS/800 requirements or performance objectives change.

### *Consultation*

This item covers ongoing support provided to the SMS/800 user community. As industry/user issues arise, software maintenance experts research the issues and provide answers in the form of presentations and/or papers.

### *Enhancement Maintenance Request (EMR) Administration*

This item includes the analysis, tracking and prioritization needed for EMR implementation.

### *Performance Monitoring*

This item covers real time monitoring of the SMS/800, its interactions with outside systems, and the proactive monitoring of application designs to ensure the most efficient use of system resources (e.g., CPU, databases).

### *Capacity Planning*

This item covers the evaluation of performance data that is crucial to planning for changes that may occur as a result of system software upgrades, new system features or requirements, hardware upgrades, and/or growth in usage or data.

### *Field Support*

This item includes the following services:

- 24 Hour support for questions and problems.
- Technical support to the NASC and the data center.
- Monitoring of daily activities and error reports from the production system.
- Coordinating network activities such as adding new links and NPA splits.
- Trouble shooting, problem isolation and resolution.
- Field Testing of software releases.
- First Application Region (FAR) Site Testing.
- Installation of new software releases into the production environment.
- Creating system installation guides.

### *Documentation*

This item includes maintenance of the following documents:

- SMS/800 User Guide
- SMS/800 Operations and Maintenance Guide
- SMS/SCP Interface Specifications

### *New Features/Enhancements*

This item includes ongoing software support to develop and implement new features and enhancements. Illustrative examples of current work are:

1. **Multi Carrier View:** This feature allows a Resp Org to view the portion of the record that involves that Resp Org.
2. **Carrier Notification:** This feature will cause a carrier to be notified each time that carrier is entered on a customer record.
3. **CIC-Resp Org Validation:** This feature will allow carriers to specify which Resp Orgs can enter their CICs on customer records.

## 4. Resp Org-requested Enhancements such as:

- Enhanced Number Reservation so that when one user accesses an 800 number for reservation, subsequent users will not be able to access that number.
- Enhanced Number Search by providing more flexibility in use of wild cards.
- Provision of an additional report that lists customer records that remain in Sending status.
- Enhanced NPA split process to automatically change records with a status of "Hold."
- Enhanced Deficient Customer Record Reports to include records in Pending and Hold status.
- Enhanced Copy (c) and Transfer (t) commands to cause the CAD of the target 800 # to be immediately displayed.

The cost of SMS/800 software support for the five year period is \$32,421,756.

## Upgrading of Data Center

This item reflects the incremental costs incurred prior to national 800 Service to upgrade the hardware in the data center. These costs reflect only the SMS/800's share of costs and were allocated on the same basis as the normal ongoing data center costs. This item includes increased processor capabilities (a new central processor); leasing costs; upgraded network access equipment to accommodate Service Providers; increased data storage capability; other computer center hardware; and the installation of all new computer hardware and software. This cost will be incurred prior to the May 1, 1993 introduction of national 800 Service. The upgrading cost consists of the following components:

- Hardware (\$8,296,000)
- Software (\$1,496,000)
- Personnel (\$1,564,000)
- Network (\$1,292,000)
- Floorspace (\$136,000)
- Investment (\$639,000)
- Miscellaneous (\$177,000)
- Carrying charge for deferred recovery of costs (\$413,134)

The data center upgrading cost is \$14,013,134.

## Bellcore NASC Transition Activities

This item reflects Bellcore costs related to the transition of NASC to an independent administrator as requested by the Commission, and the assurance of NASC operational readiness. These costs will be incurred prior to May 1, 1993. The cost of this item is \$992,254.

## Development of Enhanced NASC/SMS Billing Capability

Significant changes to the billing capabilities of the NASC will be required to permit billing of a rate structure that can satisfy its customers in a fully operational environment. This budget item covers the following costs:

### *SMS/800 Modifications*

The capabilities of the SMS/800 had to be modified to provide the necessary measurement collection and interface capabilities to support the billing system. This activity includes design and development of the measurement collection capabilities, internal testing as well as testing with the billing system, and initialization of the billing system databases.

### *BILL/800 System*

A new billing system (BILL/800) is being developed by Bellcore which was selected as the vendor after the completion of an RFP process and review of all submitted proposals. This item includes costs associated with design, development and testing of the system, as well as development of the user interface for NASC personnel and interfaces to the Bellcore billing and accounts receivable system (BARS).

The total cost of the new billing capability is \$2,121,507.

### *Mechanized Generic Interface (MGI) Development and Testing*

The MGI permits a customer's operating systems to interact with the SMS/800 System to perform activities that include creation, changing or disconnection of service records for 800 numbers. This capability was specifically requested by certain Service Providers and requires customized testing with each Service Provider that will use MGI. The MGI development cost is \$2,131,658 and will be incurred prior to cutover. The testing cost is expected to be \$1,484,198; the major part of this cost will be incurred prior to cutover.

### *Industry-Requested Software Enhancements*

This budget item covers the cost of developing new and/or modified features and functions in the SMS/800 as requested by customers. The features and functions covered include:

1. Enforcement of Number Reservation Limits.
2. Master Number Table Enhancement.

3. Enhancement of SMS Load Process to support "copy CPR" capability to enter complex records.
4. Ability for a carrier to reserve numbers in a limited set of NXXs.
5. Customer Record and Number Administration Confirmation Report/Tapes.
6. Expansion of the Areas of Service to support the Caribbean, Canada and Alaska as Areas of Service.
7. Customer Approval feature.

The total cost of this item is \$3,630,000.

#### Third-Party Start-Up Costs

The Company intends to replace Bellcore as the NASC administrator with an independent third-party. Part of this arrangement requires that the independent entity selected to assume responsibility for the NASC administration operate in parallel with Bellcore during a transition period to facilitate the change. The costs incurred during the transition are \$1,477,201.

CERTIFICATE OF SERVICE

I, MONICA ROACH, hereby certify that the foregoing "Direct Case of THE AMERITECH OPERATING COMPANIES, et"<sup>a</sup> in Docket 93-129 has been served this 20th day of September, 1993 to the Parties of Record.



A handwritten signature in cursive script, appearing to read 'Monica Roach', is written over a horizontal line.

September 20, 1993

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