

STATUS REPORT

GPO ACCESS

A Service of the U.S. Government Printing Office

June 30, 1994

U.S. Government Printing Office
Washington, DC 20401

U.S. Government Printing Office
Michael F. DiMario, Public Printer



For additional information contact the Office of Congressional,
Legislative and Public Affairs • U.S. Government Printing Office
• Washington, DC 20401 • Telephone: (202) 512-1991

STATUS REPORT

GPO ACCESS

A Service of the U.S. Government Printing Office

Established Under
**Government Printing Office Electronic Information
Access Enhancement Act of 1993**

Public Law 103-40 -- June 8, 1993

June 30, 1994

U.S. Government Printing Office
Washington, DC 20401



United States Government Printing Office
Washington, DC 20401

OFFICE OF THE PUBLIC PRINTER

July 1, 1994

Honorable Wendell H. Ford
Chairman
Committee on Rules and Administration
U.S. Senate
Suite 305, Russell Senate Office Building
Washington, DC 20510

Honorable Charlie Rose
Chairman
Committee on House Administration
House of Representatives
Room H-326, The Capitol
Washington, DC 20515

Dear Chairmen:

Pursuant to the requirement of section 3 of the Government Printing Office Electronic Information Access Enhancement Act of 1993 (P.L. 103-40), I am transmitting herewith a report on the status of the directory, system of access, and the electronic storage facility referred to in section 4101 of title 44, United States Code, known as GPO Access.

Sincerely,

Michael F. DiMario
MICHAEL F. DIMARIO
Public Printer

Enclosure

TABLE OF CONTENTS

	Page
I. Background	1
II. Key Provisions of the GPO Access Legislation	2
III. Statement of GPO Objectives	3
IV. Consultation	4
V. Online Access to the Congressional Record and Federal Register ..	5
VI. The Locator Service	10
VII. The Storage Facility	15
VIII. The Federal Bulletin Board	16
IX. Future Plans	19
X. Costs and Financing	21

List of Exhibits

Exhibit A: Legislative History of Public Law 103-40	25
Exhibit B: Initial Equipment Configuration for the Portions of GPO Access Accessible to the Public	28
Exhibit C: GPO Access Press Release	30
Exhibit D: GPO Access Brochure	35
Exhibit E: Federal Register Cover and Page II with Subscription Rates and Instructions	38
Exhibit F: Congressional Record Page with Subscription Rates and Instructions	41
Exhibit G: The Federal Bulletin Board Brochure	44

STATUS REPORT

GPO ACCESS

A Service of the U.S. Government Printing Office

I. BACKGROUND

Early in the 103d Congress two similar bills (H.R. 1328 and S. 564) were submitted, leading to the enactment of Public Law 103-40, entitled the "Government Printing Office Electronic Information Access Enhancement Act of 1993" (GPO Access) on June 8, 1993.

The GPO Access legislation had bipartisan support. It was introduced in the Senate by Senator Wendell H. Ford (KY) and co-sponsored by Senator Ted Stevens (AK) and Senator Larry Pressler (SD). In the House it was introduced by Representative Charlie Rose (NC) and co-sponsored by Representative Newt Gingrich (GA), Representative Sam Gejdenson (CT), Representative Gerald D. Kleckza (WI), Representative Pat Roberts (KS) and Representative William M. Thomas (CA). President Clinton signed it into law on June 8, 1993.

As required, the GPO Access services were made available on June 8, 1994. Over 700 subscriptions were ordered during the first three weeks of operation and thousands of inquiries were received and processed.

A brief legislative history is attached as Exhibit A. A diagram of the initial equipment configuration for the portions of GPO Access that are accessible to the public is attached as Exhibit B.

II. KEY PROVISIONS OF THE GPO ACCESS LEGISLATION

Summarized below are the key provisions of the Government Printing Office Electronic Information Access Enhancement Act of 1993 (Public Law 103-40).

1. Electronic Directory, Online Access and Storage Facility

Under the GPO Access legislation, the Superintendent of Documents is required to (1) maintain an electronic directory of Federal electronic information (the Locator Service); (2) provide a system of online access to the Congressional Record, the Federal Register and other appropriate publications (the Online Interactive Service); (3) operate an electronic storage facility for Federal electronic information (the Storage Facility). Collectively these are referred to as GPO Access.

2. Departmental Requests

To the extent practicable, the Superintendent of Documents will accommodate requests by department or agency heads to disseminate their information through GPO Access.

3. Consultation

The Superintendent of Documents will consult with users of GPO Access, and with other providers of information services, to assess the quality and value of these services.

4. Fees

The Superintendent of Documents may charge reasonable fees for use of GPO Access services, except that Federal depository libraries will have access at no charge. Fees must be set so as to recover the incremental cost of dissemination. Depository library access will be paid from the appropriation provided for the Federal Depository Library Program.

5. Biennial Report

The Public Printer must submit to the Congress a biennial report, beginning December 31, 1995, on odd-numbered years. This report shall include a description of the functions in this Act and a statement of cost savings in comparison with traditional forms of information distribution.

6. Status Report

By June 30, 1994, the Public Printer shall submit to Congress a report on the status of the GPO Access services.

7. Operational Deadline

GPO Access shall be operational by June 8, 1994.

III. STATEMENT OF GPO OBJECTIVES

Multi-disciplined organizational elements selected from within GPO were assigned critical tasks to facilitate initial implementation of Public Law 103-40. Managers from these organizational elements formed a Task Force to document the plan and coordinate its implementation to assure timely, cost-effective completion of the necessary tasks.

Following is a listing of the objectives agreed upon as governing principles in the endeavor:

- To improve access to Federal Government information in electronic formats by defining a life cycle beginning with the original document created by the author and ending with archiving in appropriate data formats.
- To establish and operate an electronic storage facility for Federal electronic information, to which online access is provided, in order to assure availability of electronic information beyond the short-term use for producing print products or initial electronic dissemination.
- To encourage the use of electronic database standards, such as SGML-structured data files; industry standard page description languages, such as PostScript; and standardized document interchange file formats, such as the Acrobat portable document format (PDF), that permit dissemination of the original document, without rekeying, in print and/or electronic format.
- To utilize a variety of dissemination media and methods, including online interactive search and retrieval; bulletin board services; CD-ROM; magnetic tape, cartridge or diskette; facsimile transmission; and satellite broadcast or other affirmative transmission, in order to achieve cost-effective information delivery that is appropriate to both the type of information being disseminated and the needs of users of that information.

- To utilize network access, particularly the Internet, to supplement the more traditional asynchronous (telephone and modem) communications as a means of access to online information services.
- To coordinate and facilitate the operation of a comprehensive Federal Government Electronic Locator System for electronic information products and other appropriate Government information.
- To provide, through GPO, services for electronic document delivery and online interactive access that are well-designed, easy to use, and low in price. Initially, the Online Interactive Service will provide access to the Congressional Record and Federal Register, but it will be capable of rapid expansion to include other high-demand databases.
- To keep system development and operating costs low and manage growth carefully in order to keep the costs to publishing agencies and users as low as possible while permitting GPO to recover its costs.
- To establish and expand the GPO Access services as part of an agency-wide strategic plan which anticipates future workforce, technology and budget requirements.

IV. CONSULTATION

In developing and implementing GPO Access, the Public Printer, the Superintendent of Documents, and other GPO staff have consulted with a variety of publishers and users of electronic government information, both from within and outside of the Federal government. Presentations have been made at numerous public meetings, including the Federal Depository Conferences, meetings of the Depository Library Council to the Public Printer, the Electronic Media (E-Media) conferences held as part of the National Information Infrastructure initiative, as well as local, regional and national library association meetings. Demonstrations and presentations have been made individually and in small groups to representatives of a variety of Congressional offices, Federal agencies, trade and professional organizations and companies. A special public meeting for information industry companies was held in October, 1993, to disseminate the Initial Implementation Plan and answer questions about it.

There have been numerous letters and telephone calls from individuals and organizations seeking information about the implementation of the legislation and offering their comments. These have been answered individually. In addition, shortly after the enactment of Public Law 103-40, GPO established a free forum on The Federal Bulletin Board to disseminate copies of pertinent documents and solicit public comment. (Exhibit G provides information on how to access The Federal Bulletin Board.) Its content includes the legislation, the House and Senate reports, the

President's statement, the initial implementation plan, copies of press releases, the statement of work for the software procurement and other relevant material. Numerous copies of these documents have also been mailed or faxed to interested parties.

The GPO Access Task Force met regularly with representatives of the Congress and other Legislative Branch agencies and with staff from the Office of the Federal Register (OFR) to develop requirements and assure that the implementation was appropriate to their needs and preferences. A variety of individuals, primarily drawn from within the Federal government and from the depository library community, participated in beta testing of the WAIS server databases in order to provide essential feedback before public release. A structured evaluation of the Prototype Locator commenced in June 1994 and will continue through the fall. It will evaluate the utilization of the locator by a variety of users in business, government, and libraries, and the results will be used to determine how to improve and expand the Locator Service.

Since the introduction of the GPO Access services on June 8, 1994, GPO staff have participated in major conferences of the American Library Association (ALA) and the Special Libraries Association (SLA). GPO will participate in the American Association of Law Libraries (AALL) conference in July 1994. On July 6, 1994, there will be three demonstrations and briefings at GPO, one for information industry companies and two for Federal agencies and others interested in the implementation of the GPO Access legislation. There are also plans to conduct a forum on GPO Access for public interest group users.

A GPO Access User Support Team has been established to assist users and answer questions from potential users. The team is collecting comments and suggestions from the hundreds of telephone calls that are coming in, and this information will be used to improve the existing services and as an aid in determining the content and characteristics of future services.

V. ONLINE ACCESS TO THE CONGRESSIONAL RECORD AND FEDERAL REGISTER

Under the GPO Access legislation, the Superintendent of Documents is required to provide a system of online access to the Congressional Record, the Federal Register and other appropriate publications (the Online Interactive Service). The initial implementation of the Online Interactive Service uses a Wide Area Information Server (WAIS) at GPO. It provides full text search and retrieval for the Congressional Record and the Federal Register. It also offers the Congressional Record Index (1992 through 1994) and Enrolled Bills for the 103d Congress.

The GPO Access services were made available on June 8, 1994. Over 600 subscriptions were ordered during the first three weeks of operation and thousands of inquiries were received and processed.

1. Requirements

In designing the WAIS server applications, GPO identified requirements that this service should:

- Be capable of meeting the operational deadline stipulated in the law.
- For the most part, utilize existing equipment, in order to minimize costs.
- Be compatible and work with Internet, as well as accessible through asynchronous communications (telephone and modem).
- Satisfy publisher and public requirements that online access to the Record and Register include the complete publications, including all tables, graphics, etc.

Although the above requirements were met with the WAIS server, additional requirements were identified that mandate the employment of alternative methods with a longer development cycle. These are discussed in Section IX: Future Plans.

2. Databases on the WAIS Server

The initial GPO Access WAIS databases are:

- Federal Register database, that contains daily issues of the Federal Register (FR) from the beginning of calendar year 1994 (Volume 59, Number 1). The database is updated by 6:00 a.m. each day the FR is published. The text of Notices, Final Rules, Proposed Rules, Presidential Documents, and Executive Orders, as well as the contents and finding aids, are included in the database daily as ASCII files, with all graphics included as individual files in TIFF format. Brief ASCII text summaries of each major entry are also available. The Regulatory Agenda will be included at a later time.
- Congressional Record database, that contains daily issues of the Congressional Record (CR) for the 103d Congress, 2d Session (Volume 140). The database is updated between 9:00 and 11:00 a.m. each day the CR is published, depending on the time that Congress adjourns the preceding day. The Daily Digest, Extensions of Remarks and House and Senate pages are all included in the database daily as ASCII text files, with all graphics included as individual files in TIFF format.

- Congressional Record Index databases, that contain the cumulated contents of the Congressional Record Index (CRI) for 1992 through 1994 (Volumes 138 through 140). The 1994 database, covering the 103d Congress, 2d Session, is updated every two weeks to incorporate the most recent biweekly issue of the CRI. The 1992 and 1993 CRI databases, covering the 102d Congress, 2d Session and 103d Congress, 1st Session, respectively, will be static. Each CRI heading, with its subordinate entries, is available as an ASCII text file. All page number references refer to pagination of the daily, rather than the final (bound) Congressional Record. Because biweekly paper issues of the CRI are not cumulative, there is no equivalent print counterpart of these databases. The databases do not contain preliminary information found in the printed version, such as listings of commonly used index headings, nor do they yet include the "History of Bills and Resolutions." The History data will be included at a later time.
- Enrolled Bills for the 103d Congress database, that contains all enrolled bills (bills passed by the House and Senate and sent to the President for signature) for the 103d Congress from the beginning of the 1st Session (1993 through 1994). The database is updated on an irregular basis, as bills are passed. Each enrolled bill is available as an ASCII text file and in the Adobe Acrobat PDF file format. Users with Acrobat viewers will be able to display and print typeset page facsimiles.

3. Methods of Access; Software

Users with full Internet access and local WAIS client software can search the ASCII text and retrieve both the text files and the TIFF files containing graphics from the Congressional Record and Federal Register. They can also retrieve the Adobe Acrobat PDF files for Enrolled Bills. Customized WAIS client software for Windows or Macintosh systems is available from GPO for \$15 per copy. Sample searches and the appropriate source selections (database addresses) are provided with this client software and the installation has been customized for the special file format requirements of the GPO Access databases. The software also include a graphics (TIFF) viewer. Acrobat viewers are available from a number of commercial software suppliers for approximately \$25 per copy.

Those who do not have full Internet connections can still use the GPO Access databases through the Simple WAIS (SWAIS) client software on the GPO server. This provides the ability to search the ASCII text files through an Internet Telnet session or by using a phone modem to dial directly into GPO. Graphic (TIFF) and Acrobat PDF files are not available through SWAIS.

A substantial number of Federal depository libraries have Internet service and can use SWAIS or the customized WAIS client software to search the GPO Access databases. GPO will provide limited 800 service for depository libraries that do not have, and cannot obtain, Internet service, and are outside of the Washington

metropolitan area. Because of the potential expense, GPO anticipates that this will be only a short term solution, and that the depository libraries will actively seek to obtain Internet access. Depository libraries using this service will have special procedures to follow and will be issued an identification number to use in conjunction with the 800 number. For the present, they will be limited to SWAIS service.

GPO intends to offer SLIP/PPP connections to dial in users in the near future. This will enable dial in users with personal computers to use local WAIS client software and have full use of the GPO Access services.

4. Depository Library Access; Subscription Fees

As required by Section 4102 of the GPO Access Act, the Superintendent of Documents is providing Federal depository libraries with access to the GPO Access databases without charge. The libraries, in turn, provide free public access to these services. There is at least one Federal depository library in each Congressional District. Costs for this access are paid from the appropriation provided for the Federal Depository Library Program in the Legislative Branch Appropriation.

Fees for other users have been set so as to recover the incremental cost of dissemination. Section X contains additional information on the costs for the development and operation of the GPO Access services.

The initial fees are as follows:

- The annual subscription price for the Federal Register Online via GPO Access through a stand alone workstation (not a server) is \$375 and includes the full text and graphics from the daily issues of the Federal Register. Six-month (26 week) subscriptions are available for \$200. One month (30 days) of access can be purchased for \$35.
- The annual subscription price for the Congressional Record Online via GPO Access through a stand alone workstation (not a server) is \$375 and includes the Congressional Record and the Congressional Record Index databases. Six-month (26 week) subscriptions are available for \$200. One month (30 days) of access can be purchased for \$35.
- Annual subscriptions are also available for either the Federal Register or the Congressional Record online through a network server with multiple workstations. Rates are as follows:

2 to 10 Workstations:	\$750 per year
11 to 50 Workstations:	\$1,875 per year
51 to 100 Workstations:	\$2,815 per year
101 to 150 Workstations:	\$3,755 per year
151 to 500 Workstations:	\$3,755 per year plus \$188 per 10 additional workstations over 150 (round up)
501 to 1000 Workstations:	\$10,335 per year plus \$94 per 10 additional workstations over 500 (round up)

Prices for servers with over 1,000 workstations can be provided upon request.

- The annual subscription price for the Enrolled Bills for the 103d Congress Online via GPO Access through a stand alone workstation (not a server) is \$60. Because of the low price, no partial year subscriptions are offered.
- Annual subscriptions are also available for the Enrolled Bills online through a network server with multiple work stations. Rates are as follows:

2 to 10 Workstations:	\$120 per year
11 to 50 Workstations:	\$300 per year
51 to 100 Workstations:	\$450 per year
101 to 150 Workstations:	\$600 per year
151 to 500 Workstations:	\$600 per year plus \$30 per 10 additional workstations over 150 (round up)
501 to 1000 Workstations:	\$1,650 per year plus \$15 per 10 additional workstations over 500 (round up)

Prices for servers with over 1,000 workstations can be provided upon request.

These rates are preliminary and are based on GPO's best estimates of the number of subscriptions that will be sold, or delivered without charge to Federal depository libraries, during the first year of service. It is difficult to anticipate precisely the costs for providing a new service, and even more difficult to anticipate the number of users and their patterns of use. Consequently, GPO will monitor both revenue and costs, and plans to adjust the rates as needed, so that the revenue, over time, will be sufficient to recover all of the incremental costs of dissemination. If usage exceeds the initial forecasts, GPO will be able to reduce the rates. Section X contains additional information on the costs for the development and operation of the GPO Access services.

The WAIS server offers limited options for charging users. Time-based charges are not meaningful in a service that is based on the transmission of queries (packets), rather than a continuous, asynchronous communications session. Since the WAIS client software does not provide the user with the file size for all files (some clients provide the size of the basic ASCII text file), it is not reasonable

to charge users based on the size of the files downloaded. Additionally, with online information services, the greatest requirement for user support comes during the initiation of service and the completion of the initial searches, so it is necessary to establish a minimum charge that will recover these anticipated user support costs. Finally, the expressed user preference is for a low cost, fixed price subscription that would permit the user to budget for the service. GPO anticipates that future enhancements to the WAIS server software and/or implementation of the SGML-based online service described in Section IX will provide more flexible pricing options.

The press release announcing the GPO Access services is attached as Exhibit C. A brochure that is used to respond to customer inquiries and otherwise promote the online databases is attached as Exhibit D. A reproduction of the Federal Register cover and the description and prices for the online Federal Register that appears in each daily issue is Exhibit E. A reproduction of the description and prices for the online Congressional Record that appears in each daily issue is Exhibit F.

VI. THE LOCATOR SERVICE

Under the GPO Access legislation, the Superintendent of Documents is required to maintain an electronic directory of Federal electronic information (Locator Service). The idea of a Federal locator or directory for electronic data files is not a new one. There have been a number of studies and legislative initiatives seeking to address the vast quantity of government information that is not easy to acquire in large part because it is not easy to find.

Assignment of the responsibility for a government-wide locator to GPO is a logical extension of its responsibility for the publication of the Monthly Catalog of U.S. Government Publications (MoCat). Title 44 USC §1711 requires GPO to "prepare a catalog of Government publications which shall show the documents printed during the preceding month, where obtainable, and the price." MoCat production receives modest funding (about \$2.5 million a year) as part of the Legislative Branch Appropriations to fulfill the requirements of Title 44.

MoCat does list a wide variety of paper, microform and electronic government "publications" — over 32,000 records per year. However, coverage of electronic information products has largely resulted from the inclusion of CD-ROM and diskette based products in the GPO Sales Program and obtained for distribution to Federal depository libraries. While it is not limited to such items, that has been a major source of information for MoCat.

The new legislation gives GPO the responsibility to provide a more comprehensive directory or locator of electronic information available from the Federal government.

Consequently, GPO has established a prototype Federal electronic directory (Prototype Locator) that provides the public, directly or through a Federal depository library, free online access to a variety of applications that identify selected Federal information services and products. The Prototype Locator then either directs or connects the users to the referenced information.

The Prototype Locator was developed through a contract with the University of Kentucky Research Foundation, on behalf of the University of Kentucky and the National Distance Learning Center. It is for \$380,000 and runs through December, 1994. It is funded by retained earnings from the Superintendent of Documents' Sales Program.

1. Characteristics of the Prototype Locator Service

A Prototype Locator has been developed that:

- Provides users with descriptive data on a wide variety of Federal information services and products as well as facilitating access to the referenced information.
- Provides a basis for the collection of data on user characteristics and needs, as well as tracking Prototype Locator usage.
- Demonstrates the feasibility of integrating the Prototype Locator with the other components of GPO Access, particularly the online databases available through the WAIS server.

The Prototype Locator is designed:

- To allow users easy searching for information about selected Federal information services and products.
- To be simple, intuitive, and self-instructing to allow users to obtain information quickly and efficiently.
- With software that is modular in design that permits upgrades with additional functions, capabilities, and enhancements.
- To allow for expansion to a fully operational Locator Service with only reasonable reprogramming efforts.
- To be a hardware-independent open system, such that it can function on a variety of different operating system/hardware platforms.
- To be compatible and work with Internet, as well as accessible through asynchronous communications (telephone and modem).

- So that any data sets developed or collected by the Prototype Locator are available for reproduction and dissemination in ASCII format.
- To refer public users to holdings of Federal depository libraries and take orders for the GPO Sales Program.

In developing the Locator Service, GPO sought to design a system that permits and encourages agencies to make data about their electronic information available locally, in a distributed system, under the control of the participating agencies. The Prototype Locator, really an initial group of model locator applications, was operational by May 1994 for preliminary testing and evaluation. Public access is scheduled for July 1994.

The implementation uses a phased approach. The initial set of information was available in May 1994, with additional agencies or information sources being added gradually thereafter. The result will not be a single, central locator, but rather a series of inter-related, individual locator applications in several different locations.

2. Prototype Locator Applications

Two major GPO information sources, the Monthly Catalog of U.S. Government Publications (MoCat) and the Publications Reference File (PRF) are the core applications for the Prototype Locator. MoCat identifies print and electronic publications from a wide range of government agencies. PRF identifies print and electronic publications for sale by GPO. The MoCat locator application permits the user to identify a document and then obtain a list of nearby Federal depository libraries that select that type of material. The PRF locator application permits the user to order publications from GPO.

Another application uses a database already offered by the Library of Congress (LC), the Congressional Bill Digest, to facilitate public identification of legislation enacted or in process. Software developed by the contractor permits natural language queries to be run against the LC database. This results in information that permits the user to identify bills and then order the full text from GPO as either PostScript or Acrobat PDF files or obtain them in other formats from alternative sources.

GPO and its contractor are working with the National Cancer Institute (NCI) and the Department of Energy Office of Scientific and Technical Information (OSTI) on additional locator applications. Other agencies are talking to GPO about incorporating their data in later phases.

An essential locator application is the Federal Resource Registry. It can accept Government Information Locator Service (GILS) records from any Federal agency and provides a registry of the various agency locator applications that are linked

through the GPO Access Locator Service.

It is important to understand that the Locator Service is intended to identify and describe—but not necessarily to directly deliver—the full content of information resources in response to a user query. For example, a search of the PRF may identify a publication, but the user will need to go to a Federal depository library or purchase a copy from GPO to use it.

3. GPO's Role in the Locator Service

GPO's role in providing the Locator Service is that of a facilitator, a coordinator and a provider of tools that can be used by an agency that wishes to include in the Locator Service data that the agency is ready and able to offer to the public. Thus each agency can work at its own pace, based on available resources and interest.

GPO will publicize the availability of the Locator Service and assist users in making their initial connection to it. GPO can train agency personnel and assist them in the implementation of their own portion of the Locator Service. As a distributed system, each agency's locator can be maintained locally and accessed directly by users, but it can also be linked (networked), so that users can search across many agencies. GPO also serves as the place where users might start if they are not sure which agency is likely to have information that would assist them, but the GPO Locator Service will not be the only path into the system.

4. Free Public Access; Methods of Access

Although the GPO Access legislation permits GPO to charge users, other than Federal depository libraries, for use of the Locator Service, access will be free to all users at least for the remainder of calendar year 1994. It is GPO's intention to continue this as a free public service if at all possible.

Currently users can access the Locator Service through an Internet Telnet session or by using a phone modem to dial directly into GPO. As noted above, GPO will provide limited 800 service for depository libraries that do not have, and cannot obtain, Internet service, and are outside of the Washington metropolitan area.

5. Equipment; Software

At present the equipment acquired as the GPO host for the Locator Service is a DEC 3000 Model 400 Alpha Workstation running OSF/1. This server has over 9 gigabytes of hard disk storage. Additional equipment can be acquired in the future, based on the volume of use.

The contractor is developing several client (user) interfaces that can be used by the public directly, or through the Federal depository libraries, to access the

Locator Service. These will be models, but the system will allow agencies, or users, to develop alternative interfaces. GPO will distribute free client software for three operating systems, DOS, Windows and X-Windows (Unix). The client software will be released as it becomes available, probably in the fall. The DOS client will be suitable for unassisted public use in a Federal depository library and can support assistive technology for the sight impaired.

6. Public Testing

The contract for the development of the Prototype Locator provides for public testing for a period of six months, from July 1 through December 31, 1994. There will be at least 12 test sites, including libraries, schools, state and local government agencies and businesses. The testing phase involves:

- Development and testing of user manuals and related training materials.
- Training of staff and users at the test sites.
- Operation of a help desk for user support.
- Collection and analysis of data on Prototype Locator usage and acceptance at the test sites.

7. Transfer of Operations; Contractor's Final Report

Responsibility for operation and maintenance of the initial Prototype Locator applications will be transferred from the contractor to GPO in the summer of 1994. GPO technical staff received training during May and June 1994, to prepare for this transfer. Additional training on the initial Prototype Locator applications and end-user software will be held at GPO during July. The contractor will continue to provide technical and consulting support through December 1994.

The contractor's final report will summarize the data from the public testing and offer recommendations for expanding the Prototype Locator into a fully operational Locator Service. This report will also provide projections for operational costs and potential usage of the Locator Service during the next five years.

VII. THE STORAGE FACILITY

The GPO Access legislation requires the GPO to "operate an electronic storage facility for Federal electronic information to which online access is made available." This facility, named Information Depository for Electronic Access (IDEA), began receiving data on March 31, 1994. It is located in Owensboro, Kentucky.

1. Purposes; Methods of Access

The Storage Facility permits GPO to retain electronic files for extended periods of time after their short-term use for production of print products or active electronic dissemination, and it will provide a mechanism for access and retrieval of stored data files, including access through the Internet, as a service to Federal agencies and the public. As with other GPO services, publishing agencies will reimburse GPO for the costs of storing their databases in the facility. Agencies will be able to underwrite all, or a portion, of the costs of public access, thereby reducing costs to users of their data.

Data files in the Storage Facility will be referenced in the Locator Service to facilitate public identification and retrieval. Fees will be established to recover the incremental costs of dissemination that are not funded by publishing agencies. Federal depository libraries will have access to the Storage Facility without charge. Costs for their access will be paid from the appropriation provided for the Federal Depository Library Program in the Legislative Branch Appropriation.

2. Content

The Storage Facility provides immediate remote access to the source data files for Federal information that have been made available through the GPO Access online services, thus assuring that these files are never "out of print." It will also be used as the original point for storing and providing public access to data files that are anticipated to have limited usage and/or are not appropriate for dissemination through the other online services.

The initial data sets in the Storage Facility include the Congressional Record (from January 1994) and Federal Register (from January 1994), the Congressional Record Index (from 1992), and Enrolled Bills for the 103d Congress (1993-1994). The text files from these databases will be stored as ASCII files, with graphics stored as separate files in the TIFF format. Enrolled bills will also be stored as Adobe Acrobat PDF (portable document format) files. The volume and variety of information will increase as additional information is disseminated through the GPO Access online services.

3. Equipment

The initial equipment for the IDEA facility includes a DEC 3000 Model 400 Alpha Workstation running OSF/1, with 9 gigabytes of hard disk capacity. Future plans include adding a CD-ROM jukebox with 100 disc capacity; and an optical disc jukebox with 88 disc capacity, using 5.25" WORM [Write Once, Read Many] discs and/or erasable discs each with 1.3 gigabytes of storage. The facility will be accessible through the Internet, permitting access to the CD-ROM discs and retrieval of files stored on the optical discs.

VIII. THE FEDERAL BULLETIN BOARD

The House and Senate Reports on the GPO Access legislation acknowledged the existence of The Federal Bulletin Board and incorporated it into GPO Access. The bulletin board service (BBS) enables Federal agencies to provide the public with immediate, self-service access to Government information in electronic form at reasonable rates. During the past six months over 16,000 files were download, transferring over 3.2 gigabytes of information to users of The Federal Bulletin Board.

1. Key Features

In addition to supporting the transfer of a wide variety of data files for a fee, the free services that The Federal Bulletin Board offers include:

- Telephone help service on weekdays from 7:00 a.m. to 5:00 p.m., Eastern time, at (202) 512-1530, as well as communication via fax at (202) 512-1262 or through BBS E-Mail to BBS Assistance. Selected agency staff are also available for E-Mail consultation.
- A User's Manual available for downloading.
- Browsing functions for the various menus and libraries on the board, including searching for keywords that describe the content of each file.
- Online ordering for free GPO sales catalogs as well as for CD-ROMs and other GPO sales items.
- Reference files to assist users in the location and use of files.
- Subject Bibliographies to help users to identify publications of interest that are for sale from GPO.
- Forums that provide information on a variety of subject areas, including implementation of the GPO Access Legislation (Public Law 103-40).

2. Content of Files

As of June 1994, the bulletin board has over 5,000 files representing more than 18 Federal agencies from all three branches of the Federal government, including files from such agencies as:

- Congress
- The White House
- The Supreme Court
- Department of Energy
- Department of Justice
- Department of State
- Environmental Protection Agency
- Federal Highway Administration
- Food and Drug Administration
- General Accounting Office
- Government Printing Office
- Health Care Financing Administration
- Internal Revenue Service
- Merit System Protection Board
- Office of Foreign Assets Control
- Office of the Federal Register
- Public Health Service
- Social Security Administration

The bulletin board includes files on subjects such as:

- Federal Budget, FY 1995
- Federal Depository Library Program
- Foreign Countries
- General Agreement on Tariffs and Trade (GATT)
- Health Care Reform
- Human Rights
- Iran-Contra Report
- National Export Strategy
- National Information Infrastructure
- National Performance Review
- North American Free Trade Agreement (NAFTA)
- Pending and Enacted Legislation
- Press Releases
- Proposed and Final Rules

This information is available in a variety of formats, including:

- ASCII
- PostScript
- Lotus 123
- Executable Software
- WordPerfect
- Acrobat PDF
- dBase

3. Methods of Access; Software

Currently users can access The Federal Bulletin Board through an Internet Telnet session or by using a phone modem to dial directly into GPO. A variety of standard off-the-shelf communications software can be used to access the bulletin board.

4. Depository Library Access; Fees

Federal depository libraries have access to fee-based services of The Federal Bulletin Board without charge. Costs for this access are paid from the appropriation provided for the Federal Depository Library Program in the Legislative Branch Appropriation.

Fees for other users are set so as to recover the incremental cost of dissemination. Users do not pay a minimum fee or any charge for the time spent online. All charges are based on the size of file downloaded. The minimum charge is \$2 per file. The average price of a file downloaded from The Federal Bulletin Board is \$5.

Payment methods include MasterCard, VISA, or GPO Deposit Account. Users are charged only when a fee-based file is downloaded.

A brochure that is used to promote The Federal Bulletin Board and respond to inquiries is attached as Exhibit G.

IX. FUTURE PLANS

GPO concluded that the type of online interactive service that must be provided to meet a broader spectrum of Federal depository library and public needs and to completely satisfy the requirements of the legislation requires a longer development cycle than the one year provided in the GPO Access legislation. Consequently, while developing the WAIS server applications to meet the statutory deadline, GPO also defined requirements for an enhanced Online Interactive Service and began the necessary steps to fulfill these requirements.

1. Use of SGML

GPO recognized that to garner potentially significant economies throughout the Federal sector, an acceptable standardized data structure must be employed. This structure should begin at the authoring level and remain usable throughout the publishing processes, whether publishing in electronic or traditional printed format. Standard Generalized Markup Language (SGML), prescribed by Federal Information Processing Standard 152, was selected as the appropriate means to accomplish these objectives.

Consequently, GPO is changing to production of the Congressional Record and Federal Register using SGML. Efforts to develop Document Type Definitions (DTD) for both the Record and Register are well underway. This is a prerequisite to implementation of an enhanced Online Interactive Service.

In addition to preparing documents in-house using SGML, GPO expects to offer training so that Federal agencies can incorporate SGML during the authoring process. Eventually, requirements for SGML will be incorporated into commercially procured printing/information products. Use of this standardized data structure will provide a coherent and unambiguous syntax for describing the elements of information in the textual data and delineating the inter-relationships between those elements, thus increasing the availability of Government information for public use in more universally accepted electronic formats.

2. Software Procurement

A notice was published in the Commerce Business Daily on August 18, 1993, announcing that GPO would procure an off-the-shelf build engine and retrieval software site license for use in electronically disseminating Government publications. This software will be used to produce CD-ROMs and online interactive databases from SGML-structured files.

A Request for Proposal (RFP) to procure this software was issued in mid-November 1993. A pre-proposal conference was held in December 1993. Although the RFP solicited commercially available software, GPO recognized that

the procured software might require substantial customization for these particular applications and issued an amendment in March 1994, addressing these and other issues raised during the pre-proposal conference. Proposals were received in mid-May 1994, and are currently under review. The award date is presently projected for September 1, 1994.

3. SGML-Based Interactive Search and Retrieval

In addition to providing a greatly enhanced search and retrieval capability, five additional features of the enhanced Online Interactive Service are regarded as very important. The SGML database structure will permit:

- Creation of databases at the authoring stage that are suitable for publication via conventional printing methods, online interactive access and CD-ROMs, without the need for GPO to manipulate the data to produce one product or the other, and with the online and CD-ROM versions capable of employing the same user interface.
- Incorporation of data from one publication into another with a different printed format (such as Bills into the Congressional Record or Federal Register documents into the CFR) without manipulation.
- Automated composition (print on demand) of data extracted from electronically disseminated databases in the same format as the "official" printed publication, or in format(s) chosen by the user.
- GPO to eliminate the need to re-key and proofread publication data, because it makes it possible for publishing customers to submit validated, machine-readable data.
- Exponential increases in the amount of Federal information that can be made available electronically to the public, if a conforming database is specified as a deliverable in future Printing Procurement contracts, along with the printed information products.

4. Alternative Forms of Dissemination

CD-ROM publications may be used to provide archival copies of the data from the Online Interactive Service and/or to serve users who cannot or do not choose to use the online services. These CD-ROMs will employ the same user interface as the Online Interactive Service, thus reducing retraining of users who do use both formats.

Affirmative transmission, via satellite or other methods, will be considered as an additional means of dissemination if there is sufficient user interest to permit full cost recovery.

X. COSTS AND FINANCING

The GPO Access legislation does not authorize appropriations, but it does authorize GPO to charge users for the incremental cost of distribution. Although no appropriations are made directly for GPO Access, per se, appropriations made to publishing agencies may be available to create databases, maintain information in the Storage Facility, and otherwise participate in the GPO Access services. However, in the absence of appropriations to cover the other costs for maintaining the system and providing services to users, GPO must recover all such costs from the fees charged for its services.

1. Sources of Funding

GPO is a self-supporting agency, receiving fees for its production and procurement services to Congress and Federal agencies and for its sale of Government information to the public. Publishing agencies, including the Congress, generally will continue to pay the "first copy" or development costs, as they do with current paper and CD-ROM products. They will do this with their own funds and under their authority, reimbursing GPO for its services. This certainly means that agencies will have a very substantial voice in deciding on the content and characteristics of the services that GPO offers.

The Legislative Branch Appropriation does include funding for Congress' own printing and binding through the annual Congressional Printing & Binding (CP&B) appropriation. It also provides funding for four programs, including the Federal Depository Library Program, through the annual Salaries & Expenses (S&E) appropriation. The appropriate congressional database development costs and operating expenses for certain congressional usage are being charged to CP&B. The expenses for Federal depository library use are being charged to the S&E appropriation.

When information is disseminated through the GPO Access services, the incremental cost of dissemination will be recovered from the recipients or, in the case of the Federal depository libraries, from the (S&E) appropriation provided to the Superintendent of Documents for that program. This would include any costs necessary for maintaining the system; providing user support; training and documentation; and software licensing fees, as well as general and administrative expenses.

The funding sources for the GPO Access services are flexible, and specific amounts cannot be estimated with accuracy at this time because the evolution of the service will result from the decisions of many Federal agencies regarding their participation. Moreover, the volume of use, in turn, is dependent on the types of information that are made available through the service. Therefore, the major determinants of the size of the program and its costs are based on the decisions of publishing agencies and potential users. Total program funding will vary based

on the demand for services and the supply of databases made available, but the revenue from users of the GPO Access services must be sufficient, over time, to recover all incremental dissemination costs. This is the basic concept underlying the revolving fund mechanism under which most GPO programs operate.

2. Pricing of Current and Future Services

GPO has priced the present online services at the estimated "incremental cost" as directed by law. As experience is gained, prices will be adjusted to assure that incremental costs are accurately reflected in the prices. The more users there are and the more databases that are made available, the lower the incremental costs will be per user per database.

Prior to full public release, SGML-based services will be tested at a number of sites to gather information on the quality and value of the services and facilitate estimation of usage and costs. This testing will include both Federal depository libraries and a variety of organizations that are representative of users.

The law requires that the GPO Access services be self-sustaining. As a result, the selection of publications and services to be offered will partially depend on:

- The willingness of publishing agencies to fund public access to these services.
- The ability of GPO to generate sufficient income from fees paid by those who purchase services.
- The ability of GPO to re-allocate limited funds from the appropriation that is provided for the Federal Depository Library Program to support usage by that community.

As currently occurs with other print and electronic publications, reimbursement for development costs incurred by GPO will come from fees paid to GPO by the publishing agencies.

3. Development Expenditures and Operating Costs

Based on the presently available information, GPO estimates that the capital expenditures for GPO Access (the Locator, the Online Interactive Service, and the Storage Facility) will amount to about \$1.0 million, cumulative over the first three years of the program. Total GPO operating expenditures are expected to total about \$.7 million during the first year of implementation of the initial online services. Publishing agencies may incur additional expenses in developing databases for the online services and participating in the Locator Service.

4. Benefits and Savings from Dissemination of Electronic Information

Net savings in terms of reduced distribution of paper copies, if any, as a result of online dissemination may not be realized for several years. Cost reductions due to electronic formats, such as CD-ROM, can be substantial for individual publications, if paper copies are eliminated. Making information contained in government electronic databases available online promotes equity and accessibility in information dissemination. Data is available online nationwide substantially before paper copies can be distributed. Benefits accrue to the users in terms of increased productivity and timely access to information.

CD-ROM and other electronic formats are beginning to replace paper publications and are being used to disseminate information never published in paper formats. Certain publications that would have been prohibitively expensive to produce in paper are being published as CD-ROMs. Given the cost advantage per volume of data afforded by CD-ROM over traditional paper alternatives, efficiency in information dissemination is greatly increased by the growing use of CD-ROM.

Microfiche publications presently account for about 60 percent of depository library distributions. The use of optical disc technology may begin to replace microfiche. In the early years of implementation, the savings will be minimal, if any. Much of the potential savings as compared with paper copies, have already been realized through the use of microfiche.

In the longer term, significant savings may be possible, even for publications presently distributed only in microfiche format, as the government moves toward implementation of Standard Generalized Markup Language (SGML) format. Creation of databases in SGML format will facilitate the storage, search, and retrieval of data. SGML will allow microfiche formats as well as paper to be replaced with online full text that can be accessed just when needed. These trends, which are driven by the pace of technology, should eventually result in reduced dissemination costs and increased services.

LIST OF EXHIBITS

- Exhibit A: Legislative History of Public Law 103-40
- Exhibit B: Initial Equipment Configuration for the Portions of GPO Access Accessible to the Public
- Exhibit C: GPO Access Press Release
- Exhibit D: GPO Access Brochure
- Exhibit E: Federal Register Cover and Page II with Subscription Rates and Instructions
- Exhibit F: Congressional Record Page with Subscription Rates and Instructions
- Exhibit G: The Federal Bulletin Board Brochure

Exhibit A:

Legislative History of Public Law 103-40

**Legislative History of Public Law 103-40
[S. 564] June 8, 1993, 107 Stat. 112, 44 USC § 4101-**

**Government Printing Office
Electronic Information Access Enhancement Act of 1993**

Legislative History citations:

103d Congress

S. 564 *Government Printing Office Electronic Information Access Enhancement Act of 1993*
March 11, 1993 *Congressional Record*, p. S2781-, *introductory statement by Mr. Ford*
March 18, 1993 *Senate Report 103-27, Committee on Rules and Administration*
March 22, 1993 *Congressional Record*, p. S3383-, *considered and passed Senate*
May 25, 1993 *House Report 103-108, Committee on House Administration*
May 25, 1993 *Congressional Record*, p. H2771-, *considered and passed House*
June 8, 1993 *Weekly Compilation of Presidential Documents*, vol. 29, p. 1043, *President's Statement on Signing*

Parallel bill:
H.R. 1328 *Government Printing Office Electronic Information Access Enhancement Act of 1993*
March 11, 1993 *Congressional Record*, p. H1231, *introduced by Rep. Rose*
April 1, 1993 *House Report 103-51, Committee on House Administration*

Precursor bills:

102d Congress

H.R. 5983 *Government Printing Office Electronic Information Access Enhancement Act of 1992*
September 22, 1992 *Congressional Record*, p. H8965, *introduced by Rep. Rose; p. E2737, statement*
September 29, 1992 *House Report 102-933, Committee on House Administration*
September 29, 1992 *Congressional Record*, p. H9683, *passed in House; received in Senate, referred to Committee on Rules*

S. 2813 *GPO Gateway to Government Act of 1992*
June 4, 1992 *Congressional Record*, p. S7599, *introduced by Sen. Gore, statement*
July 23, 1992 *Joint Hearing on S. 2813 and H.R. 2772, Senate Committee on Rules and Committee on House Administration*

H.R. 2772 *GPO Wide Information Network for Online Act of 1991 ("WINDO")*
June 26, 1991 *Congressional Record*, *introduced by Rep. Rose (37 cosponsors)*
April 8, 1992 *Congressional Record*, p. H2465, *statement by Mr. Owens on National Library Week, discussing WINDO bill and inserting American Library Association Fact Sheet*
July 23, 1992 *Joint Hearing on H.R. 2772 and S. 2813, Committee on House Administration and Senate Committee on Rules*

101st Congress

H.R. 3849	Government Printing Office Improvement Act of 1990
January 24, 1990	Congressional Record, p. E35, statement on introduction by Jim Bates, January 23, 1990
March 7-8, 1990	Hearings on H.R. 3849, Subcommittee on Procurement and Printing, Committee on House Administration

Other Background:

Hearing, Joint Committee on Printing, New Technology and the Government Printing Office, S. Hrg. 102-115, June 19, July 24, 1991

Hearing, Joint Committee on Printing, Government Information as a Public Asset, S. Hrg. 102-114, April 25, 1991

Hearings, Subcommittee on Procurement and Printing, Committee on House Administration, "Title 44 U.S.C.- Review", May 23-24, June 28-29, 1989

Informing the Nation: Federal Information Dissemination in an Electronic Age. United States Congress, Office of Technology Assessment, October 1988

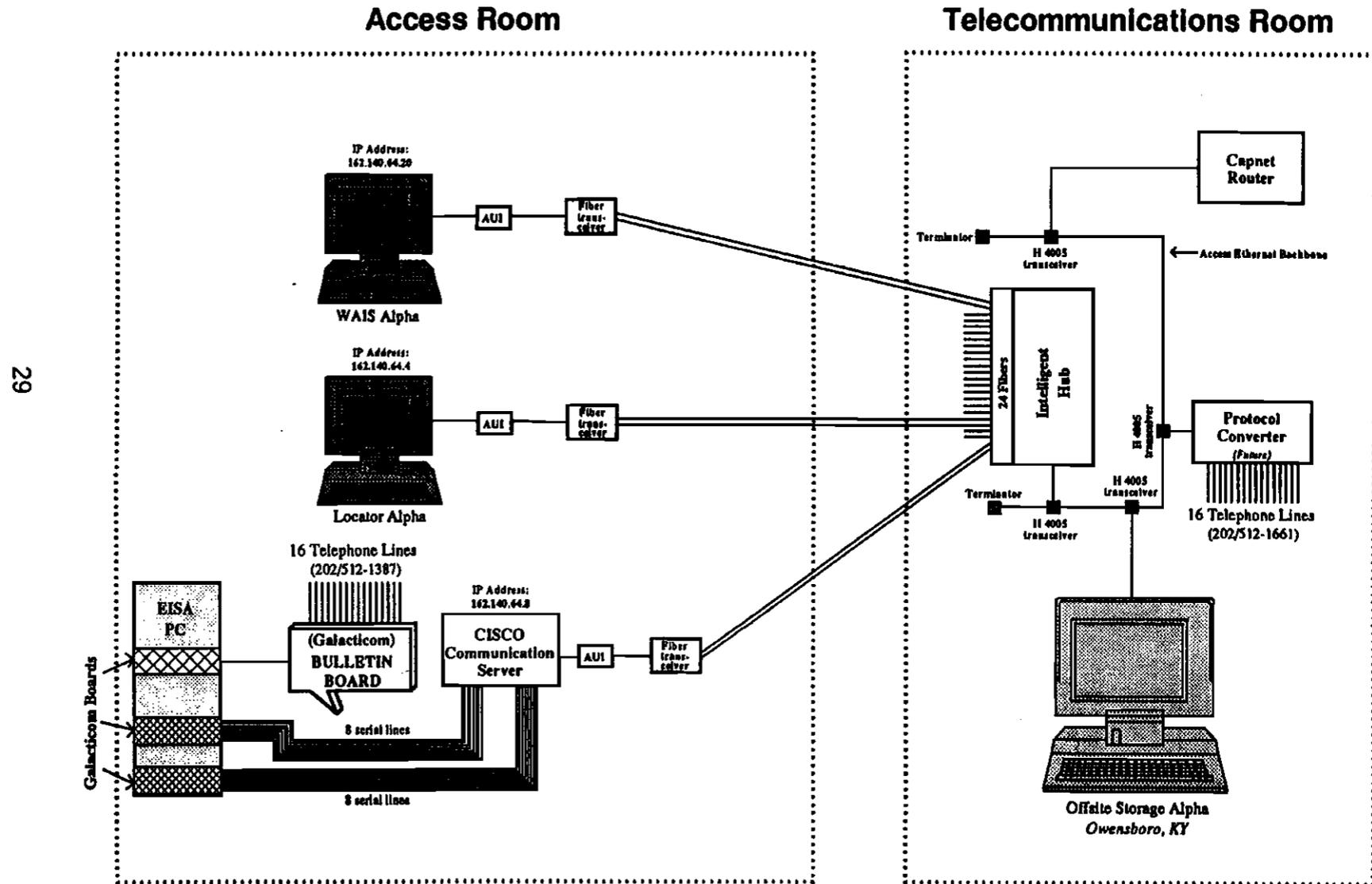
Provision of Federal Government Publications in Electronic Format to Depository Libraries. Report of the Ad Hoc Committee on Depository Library Access to Federal Automated Data Bases to the Joint Committee on Printing, S. Prt. 98-260, December 1984

Legislative Branch Appropriations Hearings, Part 2, testimony, various years

Exhibit B:

**Initial Equipment Configuration for the
Portions of GPO Access Accessible to the Public**

Initial Equipment Configuration for GPO Access System (June 30, 1994)



29

(Leeds, Schuman, Symczak INTERNET rev. 6-30-94)

Exhibit C:

GPO Access Press Release

News Release



For Release : IMMEDIATE
June 7, 1994

Contact: John Berger
202-512-1525
No. 94-6

ONLINE CONGRESSIONAL RECORD, FEDERAL REGISTER SERVICE DEBUTS

The official Government versions of The Congressional Record and the Federal Register are now available online the day of publication via the rapidly expanding information superhighway.

Users connected to the Internet will be able to access the full text and all graphics of the Record and the Register. Electronic versions of the Federal Register are being produced in a cooperative project by the Office of the Federal Register (OFR) and the Superintendent of Documents, U.S. Government Printing Office (GPO).

GPO's Production Department normally will make the Federal Register available online by 6 a.m. EST on the day of publication. The Congressional Record will be available between 9 a.m. and 11 a.m. depending on when Congress adjourns the previous day.

The public will have free access through participating Federal Depository Libraries. Organizations or individuals may purchase a subscription for access using their own computer terminals.

The databases reside on a GPO system using a Wide Area Information Server (WAIS) providing search and retrieval access over the Internet. The Congressional Record dates back to the beginning of the 2d session of the 103d Congress in January 1994. The Federal Register includes all issues beginning with January 4, 1994. The Congressional Record Index (1992-94) and all Enrolled Bills (bills passed by both the House and Senate) of the 103d Congress (1993-1994) also are available.

- over -

The release of the databases on June 8, 1994, marked the launch of an online system of access to Government information provided under the GPO Electronic Information Access Enhancement Act of 1993 (PL 103-40). The GPO Access legislation had bipartisan support. It was introduced in the Senate by Sen. Wendell H. Ford (KY) and co-sponsored by Sen. Ted Stevens (AK) and Sen. Larry Pressler (SD). In the House it was introduced by Rep. Charlie Rose (NC) and co-sponsored by Rep. Newt Gingrich (GA), Rep. Sam Gejdenson (CT), Rep. Gerald D. Kleczka (WI), Rep. Pat Roberts (KS) and Rep. William M. Thomas (CA). President Clinton signed it into law June 8, 1993.

The Congressional Record is a verbatim report of Congressional debates and other proceedings. The Federal Register is the daily "record" of the executive branch of the Federal Government. It allows the public to follow regulatory activities of the Government and to participate in the development of rules and regulations. The Register also includes Sunshine Act meeting notices and Presidential documents.

The GPO Access service is an important step in providing public access to the Government's growing store of electronic information. The Superintendent of Documents will add appropriate online databases to expand the system at the request of publishing agencies.

Users with full Internet access and WAIS client software will be able to receive all charts and graphics in the Record and Register. WAIS client software will be available from GPO.

Those who do not have Internet connections can access ASCII text files without graphics through an Internet Telnet session or by using a phone modem to dial directly into GPO.

A subscription to either the Congressional Record (including the 1992-94 Record Indexes) or to the Federal Register costs \$35 per month, \$200 for 6 months or \$375 for 1 year for one work station. The Enrolled Bills database is available initially as a 1-year subscription for \$60. Discounts are available for multiple work stations.

- more -

The WAIS databases will be available for free public access at many of the 1,400 Federal Depository Libraries located throughout the United States and its territories. The Depository System includes academic, public, law, and Federal libraries. There is at least one depository in every Congressional District.

Information about how to subscribe to the Record or Register is available by calling GPO at (202) 512-1530 or by fax at (202) 512-1262. Internet E-mail should be sent to help@eids05.eids.gpo.

The WAIS server is the first phase of development for the GPO Access service. The agency plans to create the Record and Register databases using Standard Generalized Markup Language (SGML) in January 1995. This SGML based system will permit more powerful search and retrieval capabilities making it easier for users to find specific information in the databases.

Under the GPO Access Act the Superintendent of Documents will develop and maintain two other components of the system. The first is an electronic directory of Federal electronic information designed to assist the public in locating documents. The second is an electronic storage facility which will retain databases and provide online access to them.

The Locator service uses natural language queries by subject or key phrase to identify and locate Federal information. It will enable users to order publications from the GPO Sales Program, or to locate documents available at Depository Libraries.

The electronic storage facility is located at Owensboro, KY, and began receiving data files from the WAIS server on March 31, 1994. The storage facility will be accessible over the Internet through the Locator service.

The Federal Bulletin Board, established by GPO in September 1992, was designated part of the GPO Access service by the new law, PL 103-40. The bulletin board currently contains more than 5,000 files from 18 agencies representing all three branches of the Federal Government. Subjects included are the GATT and NAFTA agreements, the National Performance Review, and health care reform.

- over -

Users may access The Federal Bulletin Board via the Internet at telnet Federal.access.gpo.gov 3001 (Port 3001) or dial-in at (202) 512-1387 (modem settings 8,N,1,full duplex).

The Superintendent of Documents is the official source for the sale of information published by more than 100 Federal agencies. Some 12,000 books or documents, 600 periodicals, and a growing number of CD-ROMs, diskettes, and online services are available.

#

Exhibit D:
GPO Access Brochure

The Prototypc Federal Locator

An electronic directory of Federal information products and services, the Prototype Federal Locator provides users with descriptions of a wide variety of Federal information sources. The introductory databases facilitate access to listings in the *GPO Publications Reference File (PRF)*, recent issues of the *Monthly Catalog of U.S. Government Publicattons (MoCat)*, and the *Congressional Bill Digest*.

The Prototype Federal Locator can either refer users to Federal Depository Libraries for free access to referenced materials or enable customers to order publications from the GPO Sales Program. If the Locator links the user with other components of *GPO Access*, then the user will have to establish a valid method of payment before getting the desired information.

Locator Access - The Locator Service is accessible over the Internet via Telnet to locator.access.gpo.gov, as well as through asynchronous communications at (202) 512-1661. Login as locator <enter>, nopassword,<enter>. GPO will distribute free client software (for DOS, Windows, and Unix) when it becomes available, in the Fall, 1994.

Federal Bulletin Board Features

- a telephone help service
- free user's manual
- free browsing functions
- online ordering for other sales products
- forums that provide information on a number of subject areas.

More than 5,000 files from over 18 Government agencies representing all three branches of the Federal Government are available in a variety of formats and on a wide variety of subjects. Prices for paid files are based on the size of the file downloaded or retrieved to the screen.

Electronic Bulletin Board Access:

- Internet: telnet to federal.bbs.gpo.gov 3001 (port 3001)
- Modem dial in to (202) 512-1387 (Settings: 8 bits, no parity, 1 stop bit, full parity) up to 9600 Baud.

The Storage Facility

The GPO storage facility will provide immediate remote access to the source data files for Federal information that have been made available through the online system of access. Data files in the storage facility will be referenced in the Locator Service. Fees will be established to recover the incremental costs of dissemination, with free access to Federal Depository Libraries.

GPO Access A Better Way To Find Federal Information

GPO Access consists of:

- a system of *online access* to the *Congressional Record*, the *Federal Register* and other databases, The **WAIS Server**.
- an *electronic directory* of all formats of Federal information, The **Federal Locator**.
- an *electronic storage facility*, **Federal IDEA** (Information Depository for Electronic Access).
- an *electronic bulletin board* for immediate, self-service access to Government information, The **Federal Bulletin Board**.

For further information:

Electronic Information Dissemination
Services (EIDS)
Mail Stop: SDE
U.S. Government Printing Office
Washington, D.C. 20401

Phone: (202) 512-1530
Fax: (202) 512-1262
Internet E-Mail: help@elds05.eids.gpo.gov

(7/794)

Available Online,
Updated Daily!

Federal Register, Congressional Record, Enrolled Bills

through
GPO Access
A Service of the
U.S. Government Printing Office



Easy and Inexpensive

Use the Internet or Dial In

**Federal Register,
Congressional Record**
Online via GPO Access

**Get the Official, Government
Versions Via the Internet**

- ♦ Complete - Full text and graphics of the *Federal Register (FR)* and the *Congressional Record (CR)*, including the 1992-1994 *Congressional Record Indexes*.
- ♦ Current - Updated each day published.
- ♦ Timely - By 6 a.m. daily for FR; between 9 and 11:00 a.m. for CR, depending when Congress adjourns the previous day.
- ♦ Convenient - Access via Internet to a Wide Area Information Server (WAIS) at GPO. Customized local WAIS client software and free user's manual are available from GPO via The Federal Bulletin Board.
- ♦ Inexpensive - Just over \$1 per day.

If you do not have a full Internet connection...

Text only through telnet or asynchronous dial in (telephone and modem). Users who dial in or telnet to the server will access through SWAIS and will not require local WAIS client software.

How To Subscribe

Prepaid subscriptions are available from the Superintendent of Documents by VISA, MasterCard, GPO Deposit Account, check or money order. For online ordering, telnet to wais.access.gpo.gov, login as `newuser` <enter>, no password <enter> or use a computer and modem to dial (202) 512-1661 and login as `wais` <enter>, no password <enter>, at the second login, `newuser` <enter>, no password <enter>.

Reasonable Rates

For either the *Congressional Record* (including the 1992-1994 *Congressional Record Indexes*) or the *Federal Register* a subscription for a single work station is only:

Single Month	\$35
Six Months	\$200
One Year	\$375

Enrolled Bills of the 103d Congress:

One year (only) \$60

These subscriptions provide for unlimited use for a stand alone work station or individual User-ID. There are discounts for servers with multiple work stations. Follow the online subscription procedures for pricing information.

Multiple Work Station Discounts

Annual subscriptions available for servers with multiple work stations are as follows:

Federal Register or Congressional Record*

2-10 work stations	\$750 per year
11-50 work stations	\$1,875 per year
51-100 work stations	\$2,815 per year
101-150 work stations	\$3,755 per year
151-500 work stations	\$3,755 per year

plus \$188 per 10 work stations

501-1,000 work stations	\$10,335 per year
plus \$94 per 10 work stations	
1,001 plus work stations	Please Inquire

* includes *Congressional Record Index* and *1994 History of Bills*.

Enrolled Bills of the 103d Congress

2-10 work stations	\$120 per year
11-50 work stations	\$300 per year
51-100 work stations	\$450 per year
101-150 work stations	\$600 per year
151-500 work stations	\$600 per year

plus \$30 per 10 work stations

501-1,000 work stations	\$1,650 per year
plus \$15 per 10 work stations	
1,001 plus work stations	Please Inquire

Customized EInet local WAIS client software @ \$15 per copy and free users manual are available via The Federal Bulletin Board. For further information:

Phone: (202) 512-1530
Fax: (202) 512-1262
Internet E-Mail: help@eids05.eids.gpo.gov

GPO Access Online Databases

The *GPO Access* WAIS (Wide Area Information Server) applications include:

FEDERAL REGISTER - Contains daily issues of the *Federal Register (FR)* from the beginning of calendar year 1994. Updated by 8:00 a.m. each day the FR is published. Notices, rules and proposed rules, regulations, Presidential documents, executive orders, table of contents, corrections, separate parts, the regulatory agenda, and reader aids are included in the database as ASCII text files, with all graphics included as individual files in TIFF format. Brief ASCII text summaries of each major entry are available.

CONGRESSIONAL RECORD - Contains daily issues of the *Congressional Record (CR)* for the 103d Congress, Second Session, 1994. Updated between 9:00 and 11:00 a.m. each day the CR is published. House and Senate pages, the Daily Digest and Extensions of remarks are all included as ASCII text files with all graphics. The History of Bills database for the 1994 *Congressional Record Index* is also available.

CONGRESSIONAL RECORD INDEX - Contains index entries for 1992 through 1994. The 1994 database, covering the 103d Congress, Second Session, will be updated every two weeks to incorporate the most recent biweekly issue of the CRI. The 1992 and 1993 CRI databases, covering the 102d Congress, 2d Session and 103d Congress, 1st Session, respectively, will be static. Each CRI heading with its subordinate entries, will be available as an ASCII text file. All page number references refer to pagination of the daily, rather than the final, *Congressional Record*.

ENROLLED BILLS - Contains all enrolled bills (bills passed by the House and Senate and sent to the President for signature) for the 103d Congress from the beginning of the 1st Session. The database will be updated on an irregular basis, as bills are passed. Each enrolled bill is available as an ASCII text file and in the Adobe Acrobat PDF file format. Users with Acrobat viewers will be able to display and print typeset page facsimiles.

**Complete, Current, Timely,
Convenient, and Inexpensive**

Exhibit E:

**Federal Register Cover and
Page II with Subscription Rates and Instructions**

6-14-94
Vol. 59 No. 113

Tuesday
June 14, 1994

federal register

NOW AVAILABLE ONLINE!
Subscribe Now ... Only \$375 Per Year
See Page II for Details.

United States
Government
Printing Office
SUPERINTENDENT
OF DOCUMENTS
Washington, DC 20402

SECOND CLASS NEWSPAPER

Postage and Fees Paid
U.S. Government Printing Office
(ISSN 0097-6326)

OFFICIAL BUSINESS
Penalty for private use, \$300



FEDERAL REGISTER Published daily, Monday through Friday, (not published on Saturdays, Sundays, or on official holidays), by the Office of the Federal Register, National Archives and Records Administration, Washington, DC 20408, under the Federal Register Act (49 Stat. 500, as amended; 44 U.S.C. Ch. 15) and the regulations of the Administrative Committee of the Federal Register (1 CFR Ch. I). Distribution is made only by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

The Federal Register provides a uniform system for making available to the public regulations and legal notices issued by Federal agencies. These include Presidential proclamations and Executive Orders and Federal agency documents having general applicability and legal effect, documents required to be published by act of Congress and other Federal agency documents of public interest. Documents are on file for public inspection in the Office of the Federal Register the day before they are published, unless earlier filing is requested by the issuing agency.

The seal of the National Archives and Records Administration authenticates this issue of the Federal Register as the official serial publication established under the Federal Register Act. 44 U.S.C. 1507 provides that the contents of the Federal Register shall be judicially noticed.

The Federal Register is published in paper, 24x microfiche and as an online database through GPO Access, a service of the U.S. Government Printing Office. The online database is updated by 6 a.m. each day the Federal Register is published. The database includes both text and graphics from Volume 59, Number 1 (January 2, 1994) forward. It is available on a Wide Area Information Server (WAIS) through the Internet and via asynchronous dial-in. The annual subscription fee for a single workstation is \$375. Six-month subscriptions are available for \$200 and one month of access can be purchased for \$35. Discounts are available for multiple-workstation subscriptions. To subscribe, Internet users should telnet to wais.access.gpo.gov and login as `newuser` (all lower case); no password is required. Dial in users should use communications software and modem to call (202) 512-1661 and login as `wais` (all lower case); no password is required; at the second login prompt, login as `newuser` (all lower case); no password is required. Follow the instructions on the screen to register for a subscription for the Federal Register Online via GPO Access. For assistance, contact the GPO Access User Support Team by sending Internet e-mail to help@eids05.eids.gpo.gov, or a fax to (202) 512-1262, or by calling (202) 512-1530 between 7 a.m. and 5 p.m. Eastern time, Monday through Friday, except Federal holidays.

The annual subscription price for the Federal Register paper edition is \$444, or \$490 for a combined Federal Register, Federal Register Index and List of CFR Sections Affected (LSA) subscription; the microfiche edition of the Federal Register including the Federal Register Index and LSA is \$403. Six month subscriptions are available for one-half the annual rate. The charge for individual copies in paper form is \$6.00 for each issue, or \$6.00 for each group of pages as actually bound; or \$1.50 for each issue in microfiche form. All prices include regular domestic postage and handling. International customers please add 25% for foreign handling. Remit check or money order, made payable to the Superintendent of Documents, or charge to your GPO Deposit Account, VISA or MasterCard. Mail to: New Orders, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954.

There are no restrictions on the republication of material appearing in the Federal Register.

How To Cite This Publication: Use the volume number and the page number. Example: 59 FR 12345.

SUBSCRIPTIONS AND COPIES

PUBLIC

Subscriptions:
Paper or fiche 202-783-3238
Assistance with public subscriptions 512-2303

Online:

Telnet wais.access.gpo.gov, login as `newuser` <enter>, no password <enter>; or use a modem to call (202) 512-1661, login as `wais`, no password <enter>, at the second login as `newuser` <enter>, no password <enter>.

Assistance with online subscriptions 202-512-1530

Single copies/back copies:

Paper or fiche 783-3238
Assistance with public single copies 512-2457

FEDERAL AGENCIES

Subscriptions:

Paper or fiche 523-5243
Assistance with Federal agency subscriptions 523-5243

For other telephone numbers, see the Reader Aids section at the end of this issue.

THE FEDERAL REGISTER

WHAT IT IS AND HOW TO USE IT

FOR: Any person who uses the Federal Register and Code of Federal Regulations.

WHO: The Office of the Federal Register.

WHAT: Free public briefings (approximately 3 hours) to present:

1. The regulatory process, with a focus on the Federal Register system and the public's role in the development of regulations.
2. The relationship between the Federal Register and Code of Federal Regulations.
3. The important elements of typical Federal Register documents.
4. An introduction to the finding aids of the FR/CFR system.

WHY: To provide the public with access to information necessary to research Federal agency regulations which directly affect them. There will be no discussion of specific agency regulations.

WASHINGTON, DC

WHEN: June 23 at 9:00 am
WHERE: Office of the Federal Register
Conference Room, 800 North Capitol Street
NW., Washington, DC (3 blocks north of
Union Station Metro)

RESERVATIONS: 202-523-4538

Exhibit F:

**Congressional Record Page
With Subscription Rates and Instructions**

Next Meeting of the SENATE

9 a.m., Tuesday, June 28

Senate Chamber

Program for Tuesday: Senate will resume consideration of S. 687, Product Liability Fairness Act, with a closure vote to occur thereon, and a vote on or in relation to the Kohl/Cohen/Murray Amendment No. 1930 to occur at 10 a.m.

(Senate will recess from 12:30 p.m. until 2:15 p.m. for party conferences.)

Next Meeting of the HOUSE OF REPRESENTATIVES

10:30 a.m. Tuesday, June 28

House Chamber

Program for Tuesday: Consideration of the following two Suspensions:

1. H.R. 3626, Antitrust Reform Act; and
2. H.R. 3636, National Communications Competition and Information Infrastructure Act.

Complete consideration of H.R. 4606, Labor, HHS, Appropriations for Fiscal Year 1995.

Extensions of Remarks, as inserted in this issue

HOUSE

Bevill, Tom, Ala., E1337
Brown, George E., Jr., Calif., E1329
Bryant, John, Tex., E1339
Byrne, Leslie L., Va., E1338
Calvert, Ken, Calif., E1340
Coble, Howard, N.C., E1339
Coleman, Ronald D., Tex., E1330
de Lugo, Ron, The Virgin Islands, E1330, E1331
Enfiseh, Karan, Ariz., E1330
Fawell, Harris W., Ill., E1335

Fazio, Vic, Calif., E1340
Gelderson, Sam, Conn., E1334
Grams, Rod, Minn., E1341
Greenwood, James C., Pa., E1340
Hamilton, Lee H., Ind., E1329
Lantos, Tom, Calif., E1335
Markey, Edward J., Mass., E1337
Meek, Carrie P., Fla., E1331
Nesbitt, Jim, Iowa, E1332
Petosi, Nancy, Calif., E1341
Rahall, Nick J., II, W. Va., E1335
Richardson, Bill, N. Mex., E1337

Santorum, Rick, Pa., E1333
Shaw, K. Clay, Jr., Fla., E1331
Shuster, Bud, Pa., E1338
Smith, Neal, Iowa, E1330
Stamp, Bob, Ariz., E1332
Talent, James M., Mo., E1327
Taylor, Charles H., N.C., E1339
Torres, Esteban Edward, Calif., E1332
Trafcant, James A., Jr., Ohio, E1341
Warman, Henry A., Calif., E1338



Congressional Record

The public proceedings of each House of Congress, as reported by the Official Reporters thereof, are printed pursuant to directions of the Joint Committee on Printing as authorized by appropriate provisions of Title 44, United States Code, and published for each day that one or both Houses are in session, excepting very infrequent instances when two or more unusually small consecutive issues are printed at one time. ¶The Congressional Record is available as an online database through GPO Access, a service of the U.S. Government Printing Office. The online database is updated each day the Congressional Record is published. The database includes both text and graphics from the beginning of the 103d Congress, 2d Session (January 1994) forward. It is available on a Wide Area Information Server (WAIS) through the Internet and via asynchronous dial-in. The annual subscription fee for a single workstation is \$376. Six month subscriptions are available for \$200 and one month of access can be purchased for \$35. Discounts are available for multiple-workstation subscriptions. To subscribe, Internet users should telnet: wais.access.gpo.gov and login as newuser (all lower case); no password is required. Dial in users should use communications software and modem to call (202) 512-1661 and login as wais (all lower case); no password is required; at the second login prompt, login as newuser (all lower case); no password is required. Follow the instructions on the screen to register for a subscription for the Congressional Record Online via GPO Access. For assistance, contact the GPO Access User Support Team by sending Internet e-mail to help@eids05.eids.gpo.gov, or a fax to (202) 512-1262, or by calling (202) 512-1530 between 7 a.m. and 5 p.m. Eastern time, Monday through Friday, except Federal holidays. ¶The Congressional Record paper and 34x microfiche will be furnished by mail to subscribers; free of postage, at the following prices: paper edition, \$112.50 for six months, \$225 per year, or purchased for \$1.50 per issue, payable in advance; microfiche edition, \$118 per year, or purchased for \$1.50 per issue payable in advance. The semimonthly Congressional Record Index may be purchased for the same per issue prices. Remit check or money order, made payable to the Superintendent of Documents, directly to the Government Printing Office, Washington, D.C. 20402. ¶Following each session of Congress, the daily Congressional Record is revised, printed, permanently bound and sold by the Superintendent of Documents in individual parts or by sets. ¶With the exception of copyrighted articles, there are no restrictions on the republication of material from the Congressional Record.

Exhibit G:
The Federal Bulletin Board Brochure

Over 5,000 Files Available

Including Agency files from ...

- The U.S. Congress
 - The White House
 - The Supreme Court
 - Department of Energy
 - Department of Justice
 - Department of State
 - Environmental Protection Agency
 - Federal Highway Administration
 - Food and Drug Administration
 - General Accounting Office
 - Government Printing Office
 - Health Care Financing Administration
 - Internal Revenue Service
 - Office of the Federal Register
 - Office of Foreign Assets Control
 - Public Health Service
 - Social Security Administration
- ... and many more!

SUBJECT FILES

The Federal Bulletin Board carries files on a wide variety of subjects, such as:

- GATT & NAFTA
- Health Care Reform
- National Performance Review

VARIETY OF FILE FORMATS

- ASCII
 - Lotus 123
 - Acrobat PDF
 - And other formats
 - PostScript
 - dBase
 - WordPerfect
- (6/94)

**THE
FEDERAL
BULLETIN BOARD**

**QUICK, CONVENIENT,
INEXPENSIVE!**

CONNECT TODAY

Telnet

federal.bbs.gpo.gov3001
(port 3001)

Requirements for Internet

- work station with telnet connectivity

or

Dial-in (202) 512-1387

Requirements for Dial-In

- Personal Computer
- Modem
- Telecommunications Software

Modem Settings For Dial-In

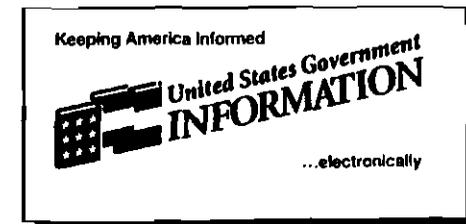
- 8 bits
- No parity
- 1 Stop Bit
- Full Duplex
- 1200-9600 Baud

**THE
FEDERAL
BULLETIN
BOARD**

*A Service of the
U.S. Government Printing Office*

**Over 18 Government Agencies
Providing More Than 5,000 Files**

New Files Added Daily



Easy and Inexpensive

Use the Internet or Dial In

THE FEDERAL BULLETIN BOARD

CONVENIENT ACCESS

The Federal Bulletin Board service enables Federal agencies to provide the public with immediate, self-service access to Government information in electronic form at reasonable rates or free through agency sponsorship.

Day or night, weekday or weekend, you can access Federal information and place orders for selected GPO sales items through **The Federal Bulletin Board**. Telnet Federal.bbs.gpo.gov 3001 (Port 3001). If you have a modem, telecommunications software and a telephone line, you can access **The Federal Bulletin Board** by calling (202) 512-1387.

EASY TO USE SYSTEM FEATURES

- **E-Mail** communication directly to GPO and selected publishing agency staff.
- **Telephone Help** service on weekdays between 7:00 a.m. and 5:00 p.m., EST.
- **Free User's Manual** available for downloading.
- **Online Ordering** available for free catalogs and CD-ROM's and other selected GPO sales materials.
- **Free Reference Files** assist in the location and use of bulletin board files.
- **Forums** provide information on a variety of subject areas.

THE LATEST INFORMATION

- New files are added to **The Federal Bulletin Board** every day. Sign on frequently to see what new files are available in your area of interest.
- Select H on the main menu to find out what's **New** and **Hot** on GPO's electronic bulletin board.

REASONABLY PRICED

You can sign on and browse through the menus and libraries on **The Federal Bulletin Board** free of charge. Prices for paid files are based on the size of the file downloaded or retrieved to the screen. The minimum file is \$2. Our average file price is \$7.

EASY PAYMENT OPTIONS

To become a validated user of **The Federal Bulletin Board**, use your VISA or MasterCard, or open a GPO Deposit Account. For more information on how to open a GPO Deposit Account, consult the *Information Center* on **The Federal Bulletin Board**. There is no charge for time on-line or browsing and no subscription fee.

GPO Access A Better Way To Find Federal Information

GPO Access consists of:

- a system of *online access* to the *Congressional Record*, the *Federal Register* and other appropriate databases, **The WAIS Server**.
- an *electronic directory* of all formats of Federal information, **The Federal Locator**.
- an *electronic storage facility*, **Federal IDEA** (Information Depository for Electronic Access).
- an *electronic bulletin board* for immediate, self-service access to Government information, **The Federal Bulletin Board**.

For further information:

Electronic Information Dissemination Services (EIDS)
Mail Stop: SDE
U. S. Government Printing Office
Washington, DC 20401

Phone: (202) 512-1530
Fax: (202) 512-1262
Internet E-Mail: help@eids05.eids.gpo.gov

