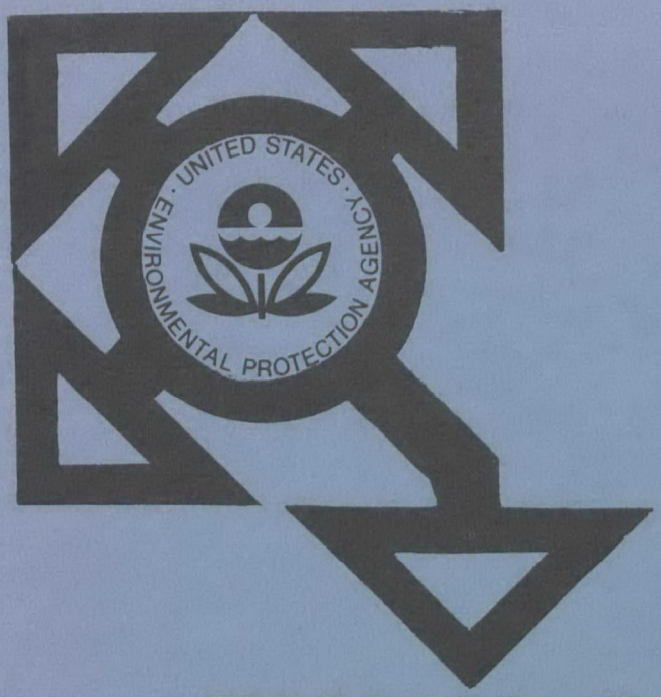

ENVIRONMENTAL INFORMATION SYSTEMS DIRECTORY

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An inventory of administrative and environmental mission support systems with indexes

JUNE 1973

U.S. ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF PLANNING AND MANAGEMENT

OFFICE OF ADMINISTRATION

MANAGEMENT INFORMATION AND DATA SYSTEMS DIVISION

ENVIRONMENTAL INFORMATION SYSTEMS

Descriptions Arranged Sequentially by Environmental Systems Identification Number within Major Administrative and Mission Support Categories.

A COMPREHENSIVE INFORMATION SERVICE FOR ENVIRONMENTAL SYSTEMS

- The Management Information and Data Systems Division maintains an inventory of all information systems activities, both automated and manual, in the Environmental Protection Agency.
- Information from the inventory is available to EPA and other Federal organizations performing environmental related missions.
- Systems profiles are collected, organized, and announced by the Division in an annual Environmental Information Systems Directory. Additional information on the systems, their uses, operating characteristics, sample reports, and availability may be obtained from the Division manager or from the Systems manager and data processing representative identified in the Systems citations.

CONTENTS

ENVIRONMENTAL MISSION SUPPORT SYSTEMS

INTRODUCTION

1. DESCRIPTION OF THE DIRECTORY

The Environmental Information Systems Directory provides a profile describing automated and manual systems supporting the administrative and environmental-mission operations in the Environmental Protection Agency.

2. PURPOSE OF DIRECTORY

This Directory was planned to facilitate such important management objectives as:

- systems planning and coordination,
- reduction in system costs, and
- the elimination of duplicative systems.

With the publication of the Directory a detailed description of EPA's manual and automated systems have been made available for the first time.

3. SPONSORSHIP OF THE DIRECTORY

The Directory is published by the Management Information and Data Systems Division of the Office of the Deputy Assistant Administrator for Administration as part of its assigned functional responsibility for providing leadership in developing the Agency Management Information Program.

4. CONTENTS OF DIRECTORY

For purposes of the Directory systems have been defined as sets of manual or automated procedures used to collect, maintain, manipulate and use periodically information or data for a specific objective. The Directory includes both existing systems and systems under development.

EPA systems have been organized and listed in the Directory under two broad categories. Administrative Systems are organized and coded in the 100 series. They are further broken down into a number of categories by subject matter. For example, systems relating to EPA's accounting, budgeting, payroll, and fiscal management functions are listed in the Financial category. In a like manner the Mission Support Systems have been categorized and listed under categories in the 200 series. For example, systems supporting air objectives are coded in the 201 category, water in the 206 category, etc.

5. ORGANIZATION OF THE DIRECTORY

The Directory consists of an Announcement Section, Subject

Index, Organizational Index, and System Manager Index.

a. Announcement

Each System Announcement has been uniquely identified in the Directory by a five digit identification code, beginning with the number 1000. In several instances for a large system, subsidiary systems are identified with the same five digit code and then with a unique two digit decimal suffix, e.g., 10034.01.

An Announcement of each system consists of an identifying citation followed by an abstract or short description of the system. The citation identifies the system by title, location where operated, operational or developmental, year of implementation, manual or automated, and the names and titles of System Manager and the Data Processing Representative. The abstract describes the systems objectives, major information products and uses, and significant processing steps performed in the system cycle. For automated systems: the number of applications programs, minimum computer memory requirements, and description of hardware on which the system is operated, etc. A sample Announcement with identification of the elements described above immediately follows the Introduction.

b. Subject Index

For each system subject terms have been chosen which succinctly describe the system.

These significant subject terms are arranged alphabetically in the Subject Index. All systems which can be characterized by each term are listed under the term. The description of the system consists of a notation which portrays the system and the identification code for locating the system in the Announcement Section. Samples of the Subject Index with identification of elements, and the other two indexes described below are shown after the sample Announcement.

c. Organizational Index

The Organizational Index provides cross-references to systems by the organizations responsible for their operation. System entries for an organization are based on the assignment or location of System Managers. The notation and identification code for each system is similar to that presented in the Subject Index above.

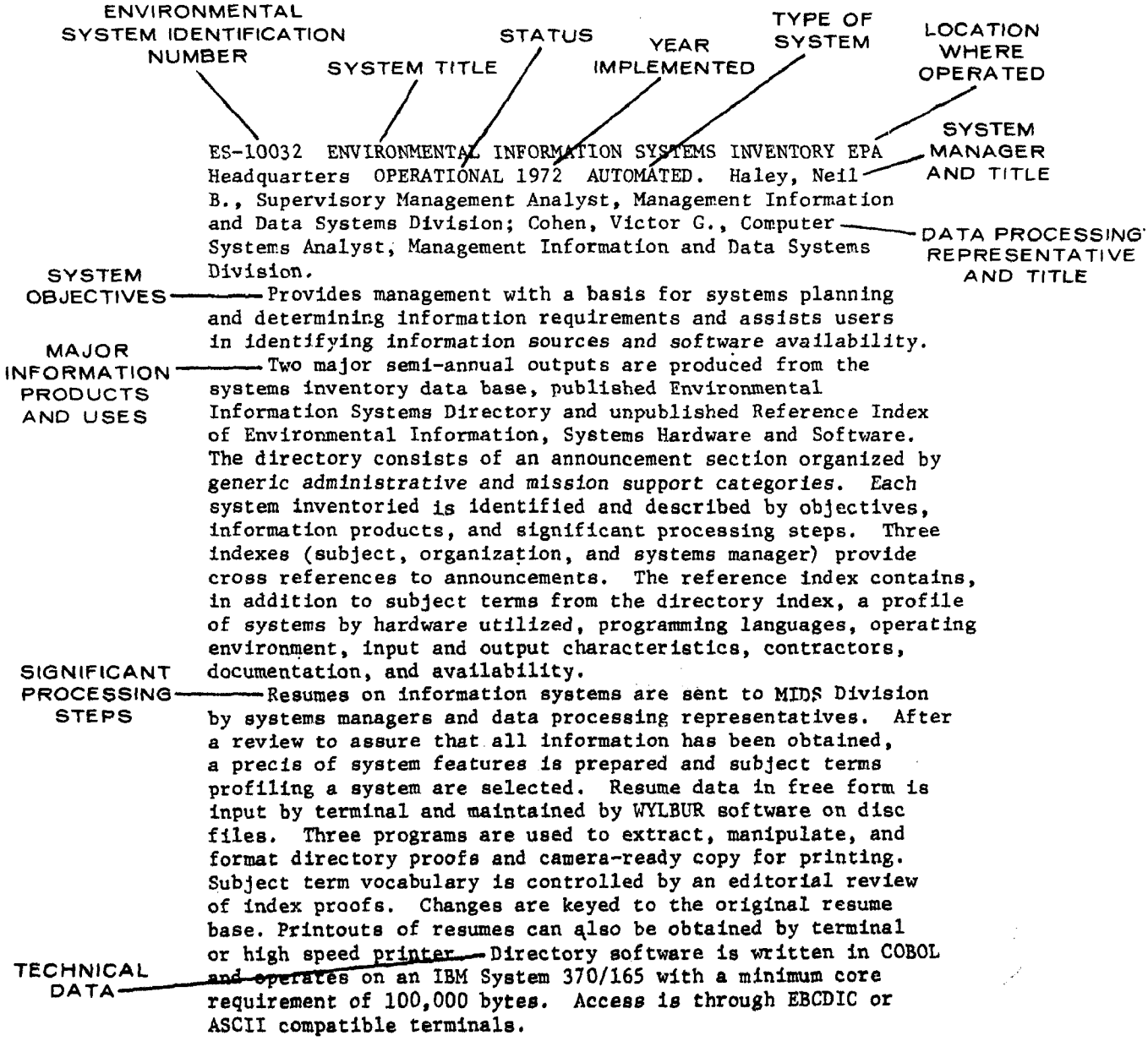
d. System Manager Index

These entries consist of System Managers' names and titles, and the same for Data Processing Representatives. A System Manager is an EPA employee who is responsible for the overall development of the system and use of its report output. A Data Processing Representative is in charge of the technical operations of the system, such as maintenance of programs and computer operations.

6. MAINTENANCE OF DIRECTORY

The Directory will be updated periodically and made available to users. In order to keep the Directory current and accurate, System Managers should complete a copy of the Information Systems Resume Form, when their systems change or new systems are being developed. Instructions for the completion of the form follow the samples of the Indexes. A copy of the form is included as the last page of the Directory. Completed forms should be mailed to the Director, Management Information and Data Systems Division, Room 3101 WSM, Environmental Protection Agency, Washington, D. C. 20460.

SAMPLE ANNOUNCEMENT DESCRIPTION FOR ENVIRONMENTAL INFORMATION SYSTEMS



ES-10032 ENVIRONMENTAL INFORMATION SYSTEMS INVENTORY EPA Headquarters OPERATIONAL 1972 AUTOMATED. Haley, Neil B., Supervisory Management Analyst, Management Information and Data Systems Division; Cohen, Victor G., Computer Systems Analyst, Management Information and Data Systems Division.

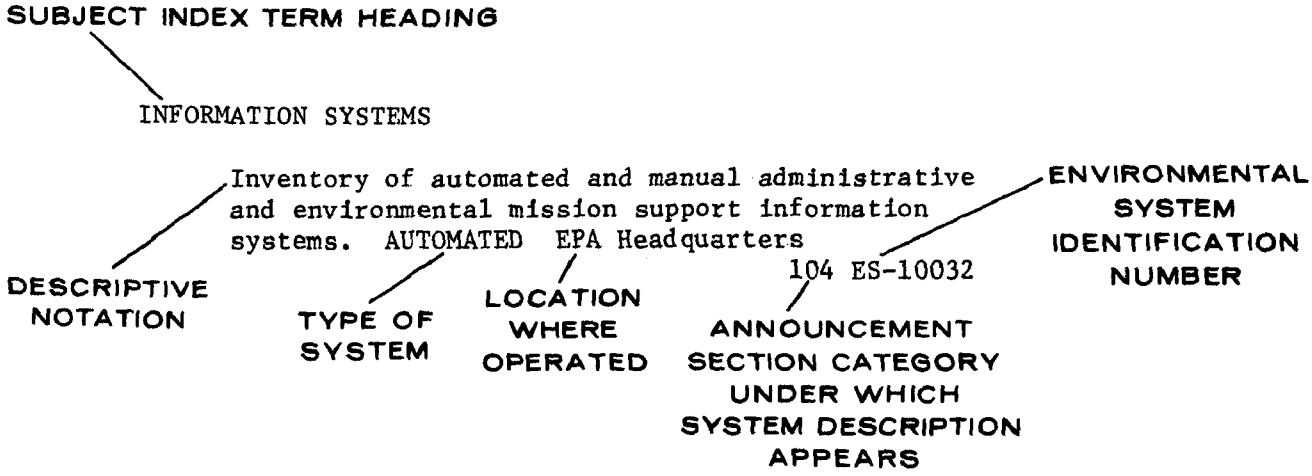
Provides management with a basis for systems planning and determining information requirements and assists users in identifying information sources and software availability.

Two major semi-annual outputs are produced from the systems inventory data base, published Environmental Information Systems Directory and unpublished Reference Index of Environmental Information, Systems Hardware and Software. The directory consists of an announcement section organized by generic administrative and mission support categories. Each system inventoried is identified and described by objectives, information products, and significant processing steps. Three indexes (subject, organization, and systems manager) provide cross references to announcements. The reference index contains, in addition to subject terms from the directory index, a profile of systems by hardware utilized, programming languages, operating environment, input and output characteristics, contractors, documentation, and availability.

Resumes on information systems are sent to MIDS Division by systems managers and data processing representatives. After a review to assure that all information has been obtained, a precis of system features is prepared and subject terms profiling a system are selected. Resume data in free form is input by terminal and maintained by WYLBUR software on disc files. Three programs are used to extract, manipulate, and format directory proofs and camera-ready copy for printing. Subject term vocabulary is controlled by an editorial review of index proofs. Changes are keyed to the original resume base. Printouts of resumes can also be obtained by terminal or high speed printer. Directory software is written in COBOL and operates on an IBM System 370/165 with a minimum core requirement of 100,000 bytes. Access is through EBCDIC or ASCII compatible terminals.

NOTE:
SYSTEM ANNOUNCEMENTS APPEAR IN SEQUENCE BY ENVIRONMENTAL SYSTEM (ES) IDENTIFICATION NUMBER UNDER MAJOR ADMINISTRATIVE AND MISSION SUPPORT CATEGORIES.

SAMPLE INDEX CROSS REFERENCES FOR ENVIRONMENTAL INFORMATION SYSTEMS



ORGANIZATIONAL INDEX TITLE HEADING

MANAGEMENT INFORMATION AND DATA SYSTEMS DIVISION

Inventory of automated and manual administrative and environmental mission support information systems. AUTOMATED EPA Headquarters
104 ES-10032

SYSTEM MANAGER INDEX HEADING

HALEY, NEIL B. - Supervisory Management Analyst, Management Information and Data Systems Division

Inventory of automated and manual administrative and environmental mission support information systems. AUTOMATED EPA Headquarters
104 ES-10032

INSTRUCTIONS FOR COMPLETING EPA FORM 2800-2, INFORMATION SYSTEMS RESUME
(A blank form is to be found at the back of the Directory)

PART 1

ITEM		
1	EPA ID NUMBER	For MIDS Use Only.
2	WASHINGTON CENTER NUMBER	For MIDS Use Only.
3	EPA CATEGORY	For MIDS Use Only.
4	TYPE OF SYSTEM	For MIDS Use Only.
5	HQ, REGION, NERC, OR LAB	Use applicable designation.
6	SYSTEM ID	For MIDS Use Only.
7	SYSTEM ACRONYM	If available.
8	SYSTEM OR SUBSYSTEM NAME	Give full name. If none is used, give brief descriptive name.
9	STATUS	Check appropriate box.
10	YEAR IMPLEMENTED	Show four digits of year. If system is under development, write NA.
11	YEAR OF LATEST REVISION	Show four digits of year.
12	ESTIMATED ANNUAL OPERATING COST	Include contractor and in-hour personnel, machine processing cost and any other directly associated cost. (To nearest $1,000)
13	SYSTEM JUSTIFICATION OR AUTHORITY	Be specific if possible.
14	TYPE OF SYSTEM	Check appropriate box.
15	MAIN FRAME	Use standard manufacturer terminology. Enter manufacturer's name, equipment nomenclature, and model number, e.g., IBM S/360-50.
16	EQUIPMENT LOCATION	City and State where equipment named is located.
17	EQUIPMENT OPERATED BY	If in-house staff, enter "local personnel." If contractor, enter full corporate name.
18	REMOTE	Similar instructions to box 15.
19	EQUIPMENT LOCATION	Similar instructions to box 16.
20	EQUIPMENT OPERATED BY	Similar instructions to box 17.
21	PROGRAMMING LANGUAGES USED	Check appropriate boxes to indicate languages used for applications programs. Do not include utility programs under "other."
22	SYSTEM SOFTWARE	More than one item can be entered.
23	SOFTWARE DEVELOPED BY	If contractor, enter full corporate name.
24	INPUT CHARACTERISTICS	Check appropriate boxes.
25	ENVIRONMENT	Check appropriate boxes.
26	OUTPUT CHARACTERISTICS	Check appropriate boxes.
27	MAXIMUM CORE REQUIRED	Enter core size for the largest application program, excluding systems software overhead or residency. If system is an overlayed or linked structure, give percent of overlay.
28	NUMBER OF APPLICATION PROGRAMS	Specify number of operational application programs or run segments written for the system. Exclude utilities and system-supported software.
29	SIZE OF LARGEST FILE	Give number of records in the largest file of the system, i.e., the one with the largest number of bytes. Also specify the average number of bytes per record in the largest file.
30	SPECIAL FILING OR OTHER EQUIPMENT USED	Use manufacturer's nomenclature.
31	STANDARD FORMS USED FOR FILE RECORDS	Show official form title followed by standard form number.
32	NUMBER OF RECORDS IN FILE	Enter number of records.
33	SYSTEM MANAGER'S NAME	Enter name of person who manages the system's operation. Exclude computer hardware operations. If system is under development, enter name of person who is responsible for its development.
34	SYSTEM MANAGER'S TITLE	Use office title for system manager.
35	ORGANIZATION CODE	Use EPA official organization code.
36	PHONE	Include area code.
37	DATA PROCESSING REPRESENTATIVE	Enter name of person who has the most detailed knowledge of the programming used in the system.

ITEM		PART 1 - CONTINUED
38	REPRESENTATIVE TITLE	Use office title for representative.
39	ORGANIZATION CODE	Use EPA official organization code.
40	PHONE	Include area code.
41	SYSTEM FLOWCHART	Check applicable box.
42	SYSTEM DESCRIPTION	Check applicable box.
43	SAMPLE OUTPUT REPORTS	Check applicable box.
44	FILE LAYOUTS	Check applicable box.
45	CODE DESCRIPTION	Check applicable box.
46	INPUT SOURCE DOCUMENTS	Check applicable box.
47	FORMS FLOW DIAGRAM	Check applicable box.
48	PROCEDURES	Check applicable box.
49	SAMPLE REPORTS	Check applicable box.
50	FILE FORMS SAMPLES	Check applicable box.
51	SOURCE COLLECTION DOCUMENTS	Check applicable box.

PART 2

The data entered in this part is self-explanatory with this exception: If the system has more than two input sources, use a regular sheet of paper to enter the additional information.

PART 3

52	SYSTEM OBJECTIVES	The system objectives should state how the system is used. It should not be confused with the means of obtaining these objectives. For example: "Aids budgetary control by providing the Accounting Division and major program offices with current financial status on expenditures, commitments, and obligations.
53	REPORT INFORMATION AND USES	Deals with products from the system and how or for what purposes they are used. The first sentence should typically inform the reader as to how the major reports are produced and the frequency. Following the opening sentence each major report or product should be described in terms of: o Significant information content o Who the major users are o How the information is used
54	SIGNIFICANT PROCESSING STEPS	The following elements of information describing how information is processed and produced are recommended, if significant to the system. (The narrative should flow if possible in the order in which the items are listed): o How data is collected and its validity o Sources of information (e.g., by samples, personnel transactions, etc.) o Filing media (e.g., tape, disc, etc.) o Output media (e.g., reports, on line inquiries) o Frequency of output o Number of application programs o Programming languages o Generalized software name o Core requirements o Hardware name and configuration
55	DESCRIPTIVE NOTATION	Since system titles and names in many instances are not informative, it is important to prepare a brief descriptive title of the system.
56	SUBJECT TERMS - PUBLISHED AND RETRIEVAL	Subject terms are used for the preparation of the subject index. These terms should be derived from concepts which describe the system and its key data elements.
57	SUBJECT TERMS - RETRIEVAL (UNPUBLISHED)	At the present time not used.
58	DATA ELEMENT NAMES - PUBLISHED AND RETRIEVAL	At the present time not used.
59	DATA ELEMENT NAMES - RETRIEVAL (UNPUBLISHED)	At the present time not used.

SAMPLE COMPLETED INFORMATION SYSTEMS RESUME FORM

INFORMATION SYSTEMS RESUME

PART 1

1. EPA ID NO.	2. WASHINGTON CENTER NO.	3. EPA CATEGORY	4. TYPE OF SYSTEM	5. HQ, REGION, NERC, OR LAB
Don't Use	Don't Use	Don't Use	Don't Use	EPA Headquarters

6. SYSTEM ID	7. SYSTEM ACRONYM	8. SYSTEM OR SUBSYSTEM NAME
Don't Use	None	Environmental Information Systems Inventory

9. STATUS	10. YEAR IMPLEMENTED	11. YEAR OF LATEST REVISION	12. EST ANNUAL OPERATING COST	13. SYSTEM JUSTIFICATION OR AUTHORITY
☒ OPER. ☐ DEV. ☐ INAC	1972	NA	$7,500	Operational requirement

14. TYPE OF SYSTEM ☒ AUTOMATED ☐ MANUAL (GO TO ITEM 30)

EQUIPMENT UTILIZED	EQUIPMENT LOCATION	EQUIPMENT OPERATED BY
15. MAIN FRAME IBM System/370-165 18. REMOTE Typewriter Terminal	16. Bethesda, MD 19. Washington, D. C.	17. National Institutes of Health 20. Computer Sciences Corporation

21. PROGRAMMING LANGUAGES USED	22. SYSTEM SOFTWARE	23. SOFTWARE DEVELOPED BY
☒ COBOL ☐ FORTRAN ☐ RPG ☐ PL/1 ☐ ASSEMBLY ☐ OTHER (SPECIFY)	☒ SPECIALIZED ☒ GENERALIZED (SHOW NAME) WYLBUR	☐ LOCAL STAFF ☒ OTHER (SPECIFY) Computer Sciences Corporation

24. INPUT CHARACTERISTICS	25. ENVIRONMENT	26. OUTPUT CHARACTERISTICS
☐ PUNCHED CARD ☐ CASSETTE ☐ MAGNETIC CARD ☐ SENSOR ☒ OTHER (SPECIFY) Direct	☐ OFF LINE ☐ BATCH ☒ ON LINE ☒ INTERACTIVE ☒ DIGITAL ☐ ANALOG	☒ LINE PRINTER ☒ TYPEWRITER ☐ MAG. TAPE ☐ PLOTTER ☐ CRT

27. MAXIMUM CORE REQUIRED	28. NUMBER OF APPLICATION PROGRAMS	29. SIZE OF LARGEST FILE
100,000 ☒ BYTES ☐ WORDS IF OVERLAYED: _____ PERCENT	3	RECORDS 400 AVG. BYTES/WORDS PER RECORD 4000 (GO TO ITEM 33)

30. SPECIAL FILING OR OTHER EQUIPMENT USED	31. STANDARD FORMS USED FOR FILE RECORDS	32. NUMBER OF RECORDS IN FILE

33. SYSTEM MANAGER'S NAME	34. SYSTEM MANAGER'S TITLE	35. ORGN CODE	36. PHONE
Haley, Neil B.	Supervisory Management Analyst	22090009	202-755-0811
BRANCH TITLE: NA	DIVISION TITLE: Management Information and Data Systems Division	OFFICE TITLE: Office of Administration	
37. DATA PROCESSING REPRESENTATIVE: Cohen, Victor G.	38. REPRESENTATIVE TITLE: Computer Systems Analyst	39. ORGN CODE: 22090009	40. PHONE: 202-755-0800
BRANCH TITLE: NA	DIVISON TITLE: Management Information and Data Systems Division	OFFICE TITLE: Office of Administration	

AUTOMATED SYSTEM DOCUMENTATION AVAILABILITY (ATTACH COPIES WHERE AVAILABLE)

41.	☒ YES ☐ NO	SYSTEM FLOWCHART	44.	☒ YES ☐ NO	FILE LAYOUTS
42.	☒ YES ☐ NO	SYSTEM DESCRIPTION	45.	☒ YES ☐ NO	CODE DESCRIPTION
43.	☒ YES ☐ NO	SAMPLE OUTPUT REPORTS	46.	☒ YES ☐ NO	INPUT SOURCE DOCUMENTS

MANUAL SYSTEM DOCUMENTATION AVAILABILITY (ATTACH COPIES WHERE AVAILABLE)

47.	☐ YES ☐ NO	FORMS FLOW DIAGRAM	50.	☐ YES ☐ NO	FILE FORMS SAMPLES
48.	☐ YES ☐ NO	PROCEDURES	51.	☐ YES ☐ NO	SOURCE COLLECTION DOCUMENTS
49.	☐ YES ☐ NO	SAMPLE REPORTS			

PREPARED BY	DATE	REVIEWED BY	DATE

INFORMATION SYSTEMS RESUME — PART 2

EPA ID NO.	EPA CATEGORY	TYPE OF SYSTEM	SYSTEM OR SUBSYSTEM NAME

INPUTS

TITLE OF INPUT OR SOURCE DOCUMENT
Information Systems Resume

METHOD OF INPUT
☐ PUNCHED CARD ☐ MAGNETIC TAPE
☐ PUNCHED TAPE ☐ OCR Direct

SYSTEM OR ORGANIZATION PROVIDING INPUT
Systems Managers in all EPA Organizations

UPDATE FREQUENCY
☐ ANNUAL ☐ QTR ☐ DAILY
☒ S. ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY)

TITLE OF INPUT OR SOURCE DOCUMENT
EPA Organization File

METHOD OF INPUT
☐ PUNCHED CARD ☐ MAGNETIC TAPE
☐ PUNCHED TAPE ☐ OCR

SYSTEM OR ORGANIZATION PROVIDING INPUT
Management Information and Data Systems Division

UPDATE FREQUENCY
☐ ANNUAL ☐ QTR ☐ DAILY
☒ S. ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY)

TITLE OF INPUT OR SOURCE DOCUMENT
EPA Directory Categories

METHOD OF INPUT
☐ PUNCHED CARD ☐ MAGNETIC TAPE
☐ PUNCHED TAPE ☐ OCR Direct

SYSTEM OR ORGANIZATION PROVIDING INPUT
Management Information and Data Systems Division

UPDATE FREQUENCY
☐ ANNUAL ☐ QTR ☐ DAILY
☒ S. ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY)

OUTPUTS

OUTPUT REPORT TITLE
Environmental Information Systems Directory

FREQUENCY
☐ ANNUAL ☐ QUARTERLY ☐ DAILY
☐ MONTHLY ☐ WEEKLY ☐ OTHER (SPECIFY)
☒ SEMI ANNUAL

FORM OF OUTPUT
☒ COMPUTER PRINTOUT ☐ TYPED/PRINTED
☐ MAGNETIC TAPE ☐ MICROFILM
☐ PUNCHED CARDS ☐ PLOTTER
☐ PAPER TAPE ☐ OTHER (SPECIFY)
☐ LOCAL TERM. DISPL.

PRINCIPAL USER ORGANIZATIONS
General distribution

OUTPUT USES
To identify all systems, manual and automated

OUTPUT REPORT TITLE
Environmental Information Systems Index

FREQUENCY
☐ ANNUAL ☐ QUARTERLY ☐ DAILY
☐ MONTHLY ☐ WEEKLY ☐ OTHER (SPECIFY)
☒ SEMI ANNUAL

FORM OF OUTPUT
☒ COMPUTER PRINTOUT ☐ TYPED/PRINTED
☐ MAGNETIC TAPE ☐ MICROFILM
☐ PUNCHED CARDS ☐ PLOTTER
☐ PAPER TAPE ☐ OTHER (SPECIFY)
☐ LOCAL TERM. DISPL.

PRINCIPAL USER ORGANIZATIONS
Management Information and Data Systems Division

OUTPUT USES
To identify systems with specific characteristics

OUTPUT REPORT TITLE

FREQUENCY
☐ ANNUAL ☐ QUARTERLY ☐ DAILY
☐ MONTHLY ☐ WEEKLY ☐ OTHER (SPECIFY)
☐ SEMI ANNUAL

FORM OF OUTPUT
☐ COMPUTER PRINTOUT ☐ TYPED/PRINTED
☐ MAGNETIC TAPE ☐ MICROFILM
☐ PUNCHED CARDS ☐ PLOTTER
☐ PAPER CARDS ☐ OTHER (SPECIFY)
☐ LOCAL TERM. DISPL.

PRINCIPAL USER ORGANIZATIONS

OUTPUT USES

FORM PREPARED BY NAME DATE	FORM REVIEWED BY NAME DATE

INFORMATION SYSTEMS RESUME **PART 3**

EPA ID NO.	EPA CATEGORY	TYPE OF SYSTEM	SYSTEM OR SUBSYSTEM NAME
Don't Use	Don't Use	Don't Use	Environmental Information Systems Inventory

52. SYSTEM OBJECTIVES (DESCRIBE CHANGES FROM ORIGINAL OBJECTIVES IF KNOWN)

Provides management with a basis for systems planning and determining information requirements and assists users in identifying information sources and software availability.

53. REPORT INFORMATION AND USES Two major semi-annual outputs are produced from the systems inventory data base, published Environmental Information Systems Directory and unpublished Reference Index of Environmental Information, Systems Hardware and Software. The directory consists of an announcement section organized by generic administrative and mission support categories. Each system inventoried is identified and described by objectives, information products, and significant processing steps. Three indexes (subject, organization, and systems manager) provide cross references to announcements. The reference index contains, in addition to subject terms from the directory index, a profile of systems by hardware utilized, programming languages, operating environment, input and output characteristics, contractors, documentation, and availability.

54. SIGNIFICANT PROCESSING STEPS Resumes on information systems are sent to MIDS Division by systems managers and data processing representatives. After a review to assure that all information has been obtained, a precis of system features is prepared and subject terms profiling a system are selected. Resume data in free form is input by terminal and maintained by WYLBUR software on disc files. Three programs are used to extract, manipulate, and format directory proofs and camera-ready copy for printing. Subject term vocabulary is controlled by an editorial review of index proofs. Changes are keyed to the original resume base. Printouts of resumes can also be obtained by terminal or high speed printer. Directory software is written in COBOL and operates on an IBM S/370-165 with a minimum core requirement of 100,000 bytes. Access is through EBCDIC or ASCII compatible terminals.

INFORMATION SYSTEMS RESUME **PART 4**

EPA ID NO.	EPA CATEGORY	TYPE OF SYSTEM	SYSTEM OR SUBSYSTEM NAME
			Environmental Information Systems Inventory

55. DESCRIPTIVE NOTATION

Inventory of automated and manual administrative and environmental mission support information systems

56. SUBJECT TERMS – PUBLISHED AND RETRIEVAL (INCLUDE SIGNIFICANT NAMES OF DATA CONTAINED IN FILES OR REPORTS)

Information systems
Computer systems
Automated systems

57. SUBJECT TERMS – RETRIEVAL (UNPUBLISHED)

58. DATA ELEMENT NAMES – PUBLISHED AND RETRIEVAL

59. DATA ELEMENT NAMES – RETRIEVAL (UNPUBLISHED)

101 CONTRACTS AND GRANTS

ES-10010 CONTRACTS INFORMATION SYSTEM (CIS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Miethorn, P., Procurement Analyst, Contracts Policy and Review Branch; Cohen, Victor G. Computer Systems Analyst, Management Information & Data Systems Div.

Reports the status of procurement requests and summary information reflecting active contracts within the agency. Status reporting encompasses six phases: request for proposal (RFP), evaluation, negotiation, contract preparation, review, and award. The Master File contains data on all contracts of $2500 or more effected since fiscal year 1971.

The information consists of reports which measure workload and function as a tracking system for top management and provides data to technical officers and outside services concerning research contracts. The information describes when a procurement request was received, the beginning of the RFP period, the beginning of the evaluation and negotiation periods as well as the contract preparation, review and award periods. It indicates when contracts are modified, and covers reporting dates and status of the contracts in the files. The system provides a bi-weekly summation of funds obligated and in process, by allowance holder, and presents this summary in various combinations (state, congressional district, city, county) giving EPA management a solid base for replies to Congress and the public while keeping the regional representatives fully informed of contractual efforts in their respective areas.

Data is entered at the contract offices from a Data Capture Sheet via local terminals and converted to program readable data sets. All data from a terminal is maintained in a unique data set; conversion of data is done by an NIH utility program. Daily transactions are built up into update records and passed to the update program. Updating is done through some 40 generalized execute statements, and consists of 4 programs. Through the update program a new master file is created, from which specific reports are generated. The CIS uses WYLBUR as a text-handling language, the IBM 370/165 and terminals. The software for the system is written in COBOL and interacts with the IRS query language. Minimum core requirement is approximately 160,000 bytes: the largest file consists of 5500 records of 1408 bytes each. The environment is remote batch input, on-line, direct access, magnetic tape, medium-speed printer.

ES-10011 GRANT PRE-AWARD SYSTEM EPA Headquarters OPERATIONAL 1972 AUTOMATED. Allison, Corinne S., Grants Information Specialist, Grants Information Branch; Thie, Donald, Systems Analyst, Grants Information Branch.

Provides the current status of Grant Applications under the purview of EPA Headquarters and prepares reports as needed.

Two reports are prepared monthly. A Monthly Grant Activity Report, Part 1 for Research, Demonstration, Training and Fellowship and a Tracking Exception Report. The Monthly Grant Activity Report, Part 1 contains the following information: name of grant program; type of applicaton, new, reneval, increase, continuation; applications in process beginning of the month by number and dollars; received by number and dollars; approved and funded by number and dollars; disapproved by number and dollars; removed from processing for other reasons by number and dollars; adjustments in dollars; applications in process end of month by number and dollars; backlog approved but not funded end of month by number and dollars. The report is used by the Grant Information Branch as input to the Summary Report of Grant Awards and Status of Funds (EPA Form 5700-6). The Tracking Exception Report is ordered by Program area: Fellowship; Training; and Research/Demonstration and arranged by the 12 months of the year. The numbers entered into the matrix are those Grant Applications received that particular month and still under review. The report is used to prevent the loss of applications in the system.

Grant Applications received at Headquarters are keyed directly into the system where the data is edited and a new record is created. The assignment of program element numbers, rejection letters or final action generally received from the project Processing of the Program Management Division of Office of Research and Monitoring or any additions or changes are also keyed directly and edited before being used to update the files. Reports are generated using IRS. The system programs are written in COBOL and operate on the NIH IBM System 370/165 with a minimum core requirement of 75,000 bytes.

ES-10033 CONSTRUCTION GRANTS ACCOUNTING SYSTEM EPA Headquarters DEVELOPMENTAL 1971 AUTOMATED. Michel, Robert L., General Engineer, Evaluation and Resource Control Branch.

Measures utilization of state allocations of fiscal year funds for construction grants by providing the actual status of funding project by city, or on a national basis.

Monthly reports showing grant balance by state are produced. These reports are used by the grants administration division for management and control of the construction grants data, and actions. Other reports may be developed as this system becomes operational.

Monthly notices of cost changes and grant awards are received from regions. At present fund charges are posted to an accounts ledger which gives balance of state allocations usage for 3 consecutive years, by state, and by fiscal year. This system interfaces directly with the Project Register file, showing outstanding projects not yet completed or not yet begun. Items are re-input to the system by terminal. The automated system consists of 5 COBOL application programs on an IBM System 370/155, with a minimum core requirement of 250,000 bytes. **System Revised May 1973**

ES-10035 PROJECT REGISTER OF MUNICIPAL WASTE WATER TREATMENT GRANTS EPA Headquarters OPERATIONAL 1965 AUTOMATED. Michel, Robert L., General Engineer, Evaluation and Resource Branch.

Reports the awarding of municipal waste water treatment grants, and changes to existing grants. Provides a project register for financial models for evaluaton and review by Congress, marketing analysis, and regions.

The monthly, most current, and semi-annual Project Registers are used by Congress, EPA headquarters and analysts to determine the number and amount of grants to be awarded municipalities for waste water treatment plants. The project register interfaces with the Pending Needs File, showing those projects that were awarded grants from the Needs File now listed in the Project Register File. The Register also serves as a guide to monitor projects for payments, operations and maintenance. The monthly Project Register is a computer printout, but the semi-annual Project Registers are published for distribution.

Grants Administration Division inputs data from monthly Project Register coding sheets on punched cards. Monitoring and Policy Branch of the Monitoring and Data Support Division provides City Master Deck inputs from STORET. The printed Project Register is the final product then of 200 COBOL, PL/1 and ASSEMBLY language programs on the IBM System 370/155 with a minimum core required of 150,000 bytes.

ES-10036 PENDING NEEDS FILE EPA Headquarters OPERATIONAL 1970 AUTOMATED. Michel, Robert L., General Engineer, Evaluation and Resource Branch.

Aids in forecasting EPA needs and funding requirements for construction grants by providing information on pending grants for wastewater treatment plants and associated planned funding and construction dates.

Two monthly reports are prepared. The summary sheets are used by EPA Headquarters and other agencies for information and control of the program. State by state summaries are prepared for use by the regions. This system is planned for eventual integration into STORET.

Each pending grant is identified by location, cost and grant estimate, fiscal year of construction, river basin, city number, and congressional district. A computer printout is used as the input form. The system consists of 25 PL/1 and EASY TRIEVE application programs on an IBM System 370/155 with a minimum core requirement of 150,000 bytes.

ES-10037 CONSTRUCTION COST INDEXES EPA Headquarters OPERATIONAL 1962 AUTOMATED. Michel, Robert L., General Engineer, Evaluation and Resource Control Branch.

Prepares monthly indexes for construction costs of sewers and municipal wastewater treatment plants.

A monthly summary report is produced for use by the regions, state agencies, and contracting firms. A construction cost index is used to estimate the level of grant support, contract costs for new construction, and modifications and escalator clauses for cost increases. Another report is issued monthly for use by contracting firms in preparing cost estimates and bids.

A new file is created from technical literature each month for each of twenty major cities, listing costs of labor, materials, and plants. The formula used to construct the index is based on experience on model sewage treatment plants. The system consists of 1 FORTRAN application program on an IBM System 370/155 with a minimum core requirement of 100,000 bytes.

ES-10090 OFFICE OF RESEARCH AND MONITORING GRANTS TRACKING SYSTEM (GRANT TRACK) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Holland, Mary, Deputy Chief of Resources Management Branch; Edgar, Robert, Deputy Chief, Resources Management Branch, Program Management Div.

Provides administrative control, gives status, and monitors all grant applications, and unsolicited contract proposals received for review in the Office of Research and Monitoring.

Selected reports are prepared weekly, including Overdue Relevance Reviews, Overdue Extramural Reviews, and Overdue Final Actions. Additional listings can be generated if more information is required. The reports are used by the Program Managers to review the progress of their projects and to identify problem areas.

All grant and unsolicited contract proposals are reviewed and selected items of information are entered into the system via a terminal. The information is used to create a new record. Data received, which updates existing records, is entered and used to update the file. The individual record contains the following fields of data: proposal number, grant or contract code, program element, fund type, applicant name, number of extramural reviews received, regional comments received, cost analyses received, responsible program official's name, date received by Grants Administration Division, date received by Project Processing Section, date sent to Program element Manager, date Relevance Review performed and its outcome, date extramural reviews requested, date COFA issued, OR&M decision and date, date offered, and final action by applicant with date. File maintenance is performed using HYLSUE generalized software and report generation using IRS commands. The system operates on the NIH IMB System 370/165. **System Revised May 1973**

ES-10100 GRANTS ADMINISTRATION CONTROL SYSTEM EPA Region 2, New York OPERATIONAL 1972 MANUAL. Johnson, Herbert E., Chief, Grants Administration Branch.

Provides administrative control of all grant applications, offers and revisions, project development, status of inspections, and financial payments.

Two reports are prepared monthly. One is an activity report for the Director of the Management Division to review the current statistics on grant applications and expenditures within the Region. The other is a summary of all grants by type, status, and expenditures and is forwarded to EPA Headquarters for inclusion into their monthly status report on all grants and funds. Grant award notification is sent directly to Headquarters via an IBM 2741 (CMCST) as they occur.

All grant applications received are logged in and reviewed for completeness and accuracy by the Grants Administration Branch before the applications are forwarded to the Air and Water Program Division for technical review. If the technical plan is adequate, the application is reviewed by legal counsel and then financial management to determine if funds are available for the grant. Recommendations are made to the regional administrator for award. If awarded, a project control file is prepared to summarize the major characteristics of the grant since all documents are filed in the Air and Water Program Division. The control file is used to monitor the progress of the grants, and to prepare the required reports on each grant.

ES-10106 RESEARCH AND DEVELOPMENT GRANTS INFORMATION SYSTEM EPA Region 3, Philadelphia OPERATIONAL 1970 AUTOMATED. Rhodes, Ralph, Chief, Surveillance Branch; Bunce, Ronald, Chief, Data Processing Support Branch.

Retrieves data on research and development projects from headquarters file using Region 3 system developed from EPA Headquarters system.

A project report is generated by the user as required. This report is used by the Region 3 Surveillance Branch to perform project reviews.

Office of Research and Development, EPA Headquarters maintains file. Region 3 system, extracted from headquarters file documentation, enables user to retrieve data. User decides what project(s) is desired, range of project entry dates, PPB category(s), river basin category(s), sort specification, print specification, and output report option. Consists of 25 FORTRAN applications programs on an IBM 1130 with a minimum core of 10,000 words.

ES-10107 CONTRACT COMPLIANCE STATUS SYSTEM EPA Region 3, Philadelphia OPERATIONAL 1971 AUTOMATED. Geller, Dan, Director, Civil Rights and Urban Affairs Division; Paparella, Joseph, Computer Specialist, Data Support Branch.

Aids Regional Administrator and EPA Headquarters in exercising administrative control over EPA contracting by maintaining status information on all major contracts by geographic area, and scheduling required for field inspections.

A monthly current contracts status report provides the regional administrator and EPA Headquarters with status information on all major contracts under construction grants programs (P.L. 660). Indicated are percentage of completion, critical trades involved, contractor, and amount.

After the construction contract is received, data is extracted from it and entered on input forms, keypunched, processed, and master report issued. After the contract is reviewed, the Civil Rights and Urban Affairs Division renders approval on EEO compliance. The system consists of 7 FORTRAN application programs on an IBM 1130 with a minimum core requirement of 4000 words.

ES-10108 MANAGEMENT CONTROL SYSTEM FOR PLANNING AND EVALUATION OF CONSTRUCTION GRANTS EPA Region 3, Philadelphia OPERATIONAL 1970 AUTOMATED. Jones, Greene A., Chief, Environmental Planning Branch; Bunce, Ronald, Chief, Data Processing Support Branch.

Produces management reports for the Environmental Planning Branch to control and direct the construction grant activity, expedite the application review

process, and provide timely response to the grant applicant.

Management reports show each project being processed by the Environmental Planning Branch, listing by state the status of events for each grant project as a function of time. Another report lists all projects in a particular status, indicating the number of days each project has been in that status. Another report lists the total new projects entering the system during the week and the total of those approved. These reports are used by the branch to monitor the progress of construction grants applications through the approval chain.

Weekly input documents, standard forms for new products, and project changes are keypunched and verified. A listing of weekly impact transactions and card error listings is produced. Weekly final approvals are removed from the active projects file and stored on disk file for the year-end report. The project flow is indicated by the service report which detects when rate of arrivals exceeds outgoing final approval rate. Consists of 7 FORTRAN applications programs on IBM 1130 with minimum core of 4000 words.

ES-10111 CONSTRUCTION GRANTS O&M EPA Region 4, Atlanta OPERATIONAL 1972 AUTOMATED. Davis, R., Chief, Support Services Branch.

Aids scheduling the required inspections of construction grants projects by the Operations and Maintenance Section of the Grants Administration Branch.

Three reports are produced. A bi-weekly inspection log, by grant number and by county designation shows when inspections have been made, when they are due, and who made them (Federal, State agencies). Another bi-weekly construction grants inspection needs report indicates when and which facilities require an inspection.

For each inspection site a coding sheet or transcript form is completed which is an 80-column card extended to 135 positions. Data is then entered on the NIH time sharing system by terminal. Programs are written in IRS and occupy about 100,000 bytes of core. There are 5 application programs which are actually sort routines. The size of the largest file is 2,000 records averaging 120 bytes each. The environment is keyboard, on-line, medium-speed printer. The local equipment is DATA 100/78 in Atlanta and the central computer is the NIH IBM System 370/165.

ES-10122 CONSTRUCTION GRANTS EPA Region 6, Dallas OPERATIONAL 1972 AUTOMATED. Kirkpatrick, R., Director, Office of Grants Coordination; Cannaday, J., Senior Programmer, Technical and Administrative Data Support Branch.

Records the status and progress of construction grants from the pre-allocation conference stage through final audit.

One report is produced in 14 different formats which describe the following: application review phase; pre-construction phase; construction phase; final payment phase; status; payment; grant offer; inspection; plans and specifications;

The various sections of a grant application are forwarded to the Word Processing Center where they are coded and a specialized IBM System 370 coding procedure is followed. File update is done through keyboard input or by punched cards, as required. Production of printouts is based on the selection of some 14 options. System uses the Boeing Computer Services IBM System 370/155 and requires 125,000 bytes of core. The largest file has 750 records of approximately 900 bytes each. Fourteen COBOL applications programs comprise the system software, and 5 additional are planned to be added. The environment is keyboard, batch, on-line.

ES-10134 CONSTRUCTION GRANTS APPLICATION STATUS EPA Region 8, Denver OPERATIONAL 1972 AUTOMATED. Hornberg, Harvey W., Chief, Municipal Waste Water Section; Entzminger, Thomas A., Chief, Computer Systems Branch.

Provides administrative support for construction grant applications processing by showing the current status of applications and the next processing step.

A status of pending applications report is published weekly showing grant number, municipality, date grant received, interim plan status, most recent action, next action, and action date. This is used by the Regional Administrator, Municipal Waste Water Section, Congressional Relations Division, and Grants Administration Branch to answer inquiries on the status of grants and to identify roadblocks in the processing cycle.

When a grant application is received, an initial form is punched to enter the grant into the system. Thereafter a weekly update form is punched. This system employs one application program written in FORTRAN utilizing 11,000 bytes of core on the Boeing Computer Services IBM System 370/155 with a DATA 100 in Region 8. There are 400 eighty character records on the file.

ES-10146 CONSTRUCTION GRANT STATUS SYSTEM EPA Region 9, San Francisco OPERATIONAL 1972 AUTOMATED. Lee, Edwin, Chief, Grants Administration Branch; Thompson, James E., Chief, Management Systems Branch.

Provides administrative control of all construction grant applications received in EPA Region 9 through project close-out.

Four reports are prepared. The major elements shared by all four reports are: project code, agency, project manager, project engineer, date of state certification, date of administrative review, date of engineering review, date of environmental impact statement review, date of HUD certification, eligibility cost, grant offer, grant amount, P&E Review, Part B, cumulative payment, date of work completion, date of inspection, and project completion date. All reports are used to monitor the status of the grant as it progresses through the referenced steps to project completion.

New construction grant applications are received from the cognizant State on EPA application forms. The data is keyed directly into the system. The listing by project manager is corrected to reflect the latest changes which are subsequently put into the system. Inputs are subjected to computer edit and validation and used to update the files. Reports are prepared monthly from these files. The system consists of seven application programs written in PL/1 and operates on the IBM System 370/155 with a minimum core requirement of 250,000 bytes. **System Revised May 1973**

ES-10151 GRANTS INFORMATION SYSTEM (GRINS) EPA Region 10, Seattle DEVELOPMENTAL 1972 AUTOMATED. McCulley, George J., Chief, Grants Administration Branch; Riemann, Robert W., Computer Specialist, Data System Branch.

Will provide the Grants Administration Branch with a record of all administrative processing actions that have occurred during the life cycle of a grant to facilitate administrative control over grant processing. The system will monitor all fiscal and processing transactions.

One major report currently being developed is a computer printout listing the complete processing record of each grant, giving the Grants Administration Branch a complete history of all transactions. This listing will also serve as the basis for submitting reports to the Grants Administration Division in EPA Headquarters. The major informational elements are grantee identification: number, name and address, type and amount of grant, dates of all major transactions or events, costs of construction and services, and completion and audit dates.

When a grant application is received, the Grants Administration Branch fills out a formated coding sheet, which is then keypunched, verified, and manually edited. Data is stored on Boeing's time-sharing system via the IBM 2780. Coding sheets are returned to the originator to serve as a source document for updates. Updates are noted on original coding sheet and entered into the system via the IBM 2741 terminal. Records will be purged from the system when the grant is sent to the government record center for final disposition. Three application programs, written in PL/1, will manipulate the data and generate the present status reports. System will require 200,000 BYTES of storage on Boeing's IBM System 370/155.

ES-10152 GRANTS CONTROL SYSTEM EPA Region 10, Seattle OPERATIONAL 1972 MANUAL. Bales, Marian S., Grants Assistant, Grants Administration Branch.

Provides a manual tool facilitating administrative control over the processing of construction grants from application through final audit. By listing all the major necessary steps on one record, Grants Administration Branch knows what has been done and what needs to be done for processing a grant so that it can monitor grant processing and answer inquiries on grant status.

No formal reports are produced by this system. Its main output provides a quick reference on the status of any construction grant. The main users of the system are the Grants Administration Branch, consulting engineers, EPA project engineers, and the Water Quality Management Section of the Water Programs Branch. The Grants Administration Branch uses information from the system to produce special reports on grant status to the Grants Administration Division in EPA Headquarters. The system contains dates of when received, reviewed, forwarded and approved on the preliminary application review; engineer and O&M review; state and local planning; grant offer; plans and specifications; payment requests; final inspection; payment; and audit.

A new record is created upon receipt of grant application. Each record consists of a project control sheet, which is affixed to the grant file folder for storage. Dates are entered by hand as processing steps are completed. Upon notification that the audit has been made, the record is removed from the active file, kept for a year, and sent to the government records center for final disposition. Tabs are used to indicate whether a critical action is required for further control. The system presently contains about 300 records, filed by project number.

ES-10224 CONTRACT SYSTEM EPA Headquarters OPERATIONAL 1970 MANUAL. Rzasa, Frank J., Chief, Procurement Management Office.

Determines status of procurement actions in Durham, NC office and workload statistics on various buyers by name.

A monthly accomplishment report is issued, which is used by the NERC, SSPCP, or Director of Administration, Durham, for maintaining statistics of the procurement action from initial purchase request to completion of contract.

Purchase request comes into mail room and is sent to a small business specialist who determines buying section. Procurement clerk fills out procurement cycle control card in duplicate and coding sheet for automated system at National Institutes of Health (WYLBUR). Completes letter to requester, establishing link from buyer to requestor. Purchase request package goes to division chief for approval of sole source, then to contracting officer who assigns it to a buyer. If competitive, goes to contracting officer for issuance of bid proposals. After buyer is selected, WYLBUR printout is returned to procurement clerk who then inputs data to computer and into MTST backup. Buyer follows schedule and cards are returned periodically for update. Status can be checked using cards.

ES-10225 GRANT AWARDS NOTICE SYSTEM EPA Headquarters OPERATIONAL 1971 AUTOMATED. Allison, Corinne S., Grants Information Specialist, Grants Information Branch; Thie, Donald, Systems Analyst, Grants Information Branch.

Provides Congress, general public and internal EPA organizations with a notice of all grants awarded by the Environmental Protection Agency.

A daily report of all grant award notifications throughout the Agency is prepared by the Grants Information Branch and forwarded to the Office of Legislative Affairs, EPA for information and dissemination. A monthly Summary Report is also prepared and sent to all EPA Regions and Headquarters for information purposes.

A Grant Award Information Form (EPA Form 5700-1) is prepared daily for each grant awarded. The regions forward their data via a CRCST to the Grants Information Branch. Headquarters grant information is sent directly to the Branch. A Daily Awards List is prepared from this information and the information is transcribed to a Grant Award Information Coding Sheet for direct input into the system. After editing, the data is used to update the current file. The system consists of six application programs written in ASSEMBLY and operates on NIH's IBM System 370/165.

ES-10226 MONTHLY GRANT ACTIVITY REPORTING SYSTEM EPA Headquarters OPERATIONAL 1971 MANUAL. Adams, Leah, Grants Specialist, Grants Information Branch.

Prepares a monthly summary of all Grant Awards and the status of their funds.

A Summary Report of Grant Awards and Status of Funds (EPA Form 5700-6), with a supplement on Construction Grants, is prepared monthly. In addition, a Monthly Activity Report (EPA Form 5700-3), a summary by individual types of grants, is prepared along with a summary of Grant Applications Processing (EPA Form 5700-4). From the Monthly Grant Activity Report received from the regions the Summary Report of Grant Award and Status of Funds and the Grant Applications Processing Report are prepared. Status of Funds with a supplement on Construction Grants, along with its ancillary reports, are used by the Assistant Administrator for Administration for internal management and fiscal control.

All EPA field activities submit a completed Monthly Grant Activity Report to the Grants Information Branch. Those grants that EPA Headquarters is responsible for, Research Demonstration, Training, and Fellowship, have Part 1 completed by a Headquarters Pre-Award computer program. Part 2, however, is generated by contacting each cognizant headquarters activity for a report of funds from their commitments register. All data is summarized by type of grant including: Research and Demonstration, Training and Fellowship, Air Pollution Control, Comprehensive Basin Planning - Section 3c, State and Interstate Programs - Section 7, Solid Waste Planning, and Waste Water Treatment Construction Grants. These summaries are used to prepare the Summary Report of Grant Awards and Status of Funds.

ES-10233 CONTRACT LOG EPA Headquarters OPERATIONAL 1972 MANUAL. Hinman, John E., Chief, Administrative Branch.

Aids administrative control over contracts, interagency agreements, and grants processing and accounting by maintaining a status log of actions and verification of status of funds on expenditures.

No reports are produced. A Contract Log is maintained, showing date the Request for Proposal (RFP) was received, date RFP was released, negotiator's name, contract number, dollar amount certified, and dollar amount awarded. The Administrative Branch, NSPCP, uses the log to monitor processing status and to validate the Commitment Register.

When an RFP is received, it is entered into log. As processing action takes place, the log is updated. When the contract is awarded, the record is purged. Approximately 160 records are maintained in the log. **System Revised May 1973**

ES-10236 GRANTS APPLICATION PROCESSING CONTROL SYSTEM EPA Region 7, Kansas City OPERATIONAL 1972 MANUAL. Young, Lewis A., Chief, Program Support Branch; Florence, Cecil E., Chief, Data Systems Branch.

Provides administrative control over the processing steps involved in a construction grant application.

No formal reports are produced. Statistics are compiled from the system to provide annual input to the program element plans report. Status reports are also produced on an as-required basis for the division director and regional administrator. System is mainly used by the EPA project engineer to check the status of all grant applications and facilitating administrative control over the application process. Major informational elements are applicant's name project identification number, type of construction, date application received, EPA project officer, administrative actions of preapplication review of engineering report, and administrative actions required during the application review.

A record is created upon receipt of a construction grant application or when preapplication engineering reports are received. The original is sent to the EPA project engineer who stores the card in a file.

Updates are made only on the original as actions are recorded. Upon grant approval and completion of all processing steps the record is purged from the system. The file contains 50 records. Plans are underway to automate the system.

ES-10256 GRANTS ADMINISTRATION SYSTEM EPA Region 3, Philadelphia OPERATIONAL 1962 MANUAL. North, Robert M., Chief, Grants Administration Staff.

Aids in maintaining control of grant award, status, estimated and final amounts expended. Keeps EPA Headquarters informed of grants information.

A monthly status report indicates grant applications that are in the approval process. The project register lists all approved grants, showing their status, degree of completion, estimated completion date, and funds projected and expended.

After receipt of grant application, a project control record is completed. If approved, the grant is awarded and accepted. Monthly reports (project registers) are compiled by EPA Headquarters along with semi-annual project registers, listing all Region 3 Grants.

ES-10262 CONSTRUCTION GRANTS PROJECT STATUS EPA Region 5, Chicago OPERATIONAL 1956 MANUAL. Voight, Kenneth R., Chief, Grants Administrative Branch.

Provides Grants Administration Branch with administrative control over all construction grants from receipt of grant application through final audit.

The system produces no format reports.The Grants Administration Branch utilizes the system to answer inquiries about construction grants status in process including cost estimates, grant payments, and project schedules. The system contains the following information: applicant identification and address; project description and title; applicant signer and engineer; records of dates and amount of projected grant funds needed; a breakdown of estimated costs by type of activity; administrative processing actions from signature by state to project evaluation; and a record of the amount and date grant payments are made.

A project control card (FWPCA-13 Rev. 10-67) is filled out each time a grant application is received. The card is updated during each of the grant processing and payment stages. Records are purged upon completion of a grant. A file consisting of 1000 records stored by state according to project number is maintained.

ES-10266 OPERATIONS AND MAINTENANCE GRANT CONTROL SYSTEM EPA Region 7, Kansas City OPERATIONAL 1971 AUTOMATED. Joslin, Joseph E., Chief, Operations and Maintenance Branch; Florence, Cecil E., Chief, Data Systems Branch.

Enables the Operations and Maintenance Branch to exercise administrative control over processing requirements of construction grants.

One monthly report is produced which lists all grants and their status. It is used by the branch as a source of information on the status of any grant, to help in compiling a list of grant projects to be inspected by state as required by law, as a work planning tool to develop work schedules for branch employees, and a historical record of all construction grants in Region 7. Major informational elements are applicant's name, project number, date of grant offer, date of receipt of comments and approval of operations and maintenance manual, date of final engineer inspection of construction completion, date of operations and maintenance inspection, and remarks concerning the description of construction.

A record is created upon receipt of a ledger recording of a construction grant offer made by the Grants Administration Branch. The name of the grantee, project number, date of offer, and description of construction are extracted from the ledger, keypunched, and verified. Punched cards are stored in a file and are used to make a monthly listing. This listing is used as a report, an edit listing, and an update listing. All errors and transactions are written on the listing. Once a month new cards are punched reflecting the changes that were made and the file is relisted. No records are planned for purging. File contains approximately 1,500 records, averaging 80 bytes per record. System has one application program written in FORTRAN and requires 800 bytes of core on an IBM 1130.

ES-10267 RESEARCH GRANTS AND CONTRACTS STATUS FILE EPA Region 7, Kansas City OPERATIONAL 1970 MANUAL. Garner, William, Representative, Research and Monitoring.

Aids the Research and Monitoring Office to exercise administrative control over all processing steps involved with research grants and contracts.

No formal reports are produced. Output is information serving as a ready reference for all research grants and contracts processed by Region 7. Statistics are compiled from system data and are used for status reports to the regional administrator, when required. The data are also used to plot the geographic location of Region 7 research grants and contracts on a situation map, which aids in scheduling inspection visits. Major informational elements are proposed research subject, researcher's name and address, a numerical identifier or project number, and the receipt dates of the preproposal project description and formal proposal; and grant award date.

A record is created on a card each time a preproposal outline of proposed research is received. Grant processing is controlled by using multi colored cards indicating various stages of processing and action required. Currently the file contains over 100 records.

ES-10268 GRANT CONTROL SYSTEM EPA Region 7, Kansas City OPERATIONAL 1957 MANUAL. Ritter, Ronald R., Chief, Grants Administration Branch.

Enables the Grants Administration Branch to exercise administrative control over all construction grants from receipt of grant application through final audit.

No formal reports are produced by the system. Statistics are compiled from the system to provide a status report on all Region 7 grants to the Grants Information Division at EPA Headquarters. This report mainly concerns cumulative summaries of obligated funds and status reports by recipients. Major informational elements are applicant identification and address; project description and title; applicant signee and engineer; records of the date and amount of projected grant funds needed; a breakdown of estimated costs by type of activity; administrative processing actions from signature by state to project evaluation; and record of the amount and the date grants are made.

A record is created each time a grant application is received and is stored on a project control record. Records are updated manually with information extracted from a variety of source documents, both internal and external to the branch, such as the miscellaneous obligation report, applicant cost estimate, Water Programs Branch memorandums on inspections, administrative actions taken, and approval of grant payments. Records are purged upon completion of a grant. File consists of 500 records stored by state and project number.

ES-10279 PROJECT CONTROL RECORD EPA Region 8, Denver OPERATIONAL 1971 MANUAL. Vigil, Alfred R., Chief, Grants Administration Branch.

Provides Grants Administration Branch with administrative control over all construction grants from receipt of grant application through final audit.

The system produces no formal reports. The Grants Administration and Municipal Waste Water Branches and the Civil Rights and Urban Affairs Division utilize the system to answer inquiries about construction grants status in processing including costs estimates, grant payments, and project schedules. The system includes the following information: applicant identification and address, project description and title, applicant signer and engineer, records of dates and amount of projected grant funds needed, a breakdown of estimated costs by type of activity, administrative processing actions from signature by state to project evaluation, and a record of the amount and date grant payments are made.

A project control card (FWPCA-13 REV 10-67) is filled out each time a grant application is received. The card is updated during each of the grant processing and payment stages. Records are purged upon completion of a grant. A file consisting of 250 records stored by state by project number is

maintained. **System Revised May 1973**

ES-10280 WASTE WATER GRANT CONTROL LOG EPA Region 9, San Francisco OPERATIONAL 1972 MANUAL. Jones, Thomas, Chief, Environmental Impact Section.

Provides an administrative control of EPA Waste Water Construction Grant Applications and Engineering Reviews received for environmental impact evaluation. Used also as an evaluators assignment roster.

No reports are generated.

Waste Water Construction Grant Applications and their Engineering Reviews received for environmental impact evaluation are logged in and assigned to an evaluator. Upon completion of the review, the Application and Engineering Reviews are returned to the Construction Grants Branch with the detailed evaluation. Two possible evaluations may be made: a Negative Declaration and Environmental Appraisal; or an Environmental Impact Statement. **System Revised May 1973**

ES-10286 CONTRACT COMPLIANCE FOR CIVIL RIGHTS AND URBAN AFFAIRS EPA Region 9, San Francisco OPERATIONAL 1968 MANUAL. Kelly, Richard, Director, Office of Civil Rights and Urban Affairs.

Aids in the determination and monitoring of contractor qualifications to insure minority employment on Federally funded projects.

No formal reports are prepared. However, prior to final approval of a Grant, a memorandum of qualification must be prepared by the Director of Civil Rights and Urban Affairs and forwarded to the Grants Administration Branch. A file is created specifying trade and minority composition from which is determined the degree of compliance with the Equal Employment Opportunity's affirmative action program.

After contract award, the Contractor must send in monthly manpower utilization reports and is subject to on-site inspections and reviews. If deemed necessary, sanctions may be applied against a contractor who fails to meet the legal requirements. **System Revised May 1973**

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ES-10012 PERSONAL PROPERTY SYSTEM (PPS) EPA Headquarters OPERATIONAL 1970 AUTOMATED. Powers, Frank E., Chief, Property and Supply Management, General Services Branch; Bullock, Frank, Computer Systems Analyst, Management Information & Data Systems Div.

Supports accounting records as required by the GAO thru the Federal Property and Administration Services Act of 1949 by accounting for personal property, receipt and transfer of property, requests for property adjustments, and transfer of excess property.

Six reports are produced by the system. A monthly Transaction Error List is used by the Inventory Control Centers at Cincinnati and Research Triangle Park, NERC, to correct input transactions. A monthly Voucher Register is used by accountable area officers to reconcile dollar value of equipment on hand, and is used by the Financial Management Division to reconcile fiscal accounts. A monthly Transaction Report is used to reconcile input transactions. A quarterly Detailed Report by Custodial Area may be used by custodial offices for inventory purposes. A monthly Excess and/or Surplus Property Report by Federal Stock Class is used as a source of supply. Three special reports, Sequential or Alphabetical Reports of Accountable Property by Accountable Area, and Federal Supply Class Within Accountable Area, are produced on an as-needed basis. Their use is determined by requestor. Data elements maintained by the system and displayed in the reports include decal number, accountable area, custodial area, voucher number, acquisition date and cost, quantity, manufacturer's name, serial number and model number, cost accounting number, item status, condition code, federal stock number, catalog number, and life expectancy.

Information flows from accountable officers to the inventory control centers to the national system. Coding Form EPA 1740-9 is used for input on remote terminals at the inventory control centers. The input is sorted, edited, and separated into valid and error files. Transaction errors are listed and valid file is updated. The updated involves inputs from the life expectancy table and from the PPS master and Report Records. The reports are then produced through IRS. There are fifteen application programs written in COBOL and ASSEMBLY Language using WYLBUR and IRS software that utilize a maximum of 150,000 bytes of core on NIH's IBM System 370/165. There are 43,000, 340-character records on the master file. **System Revised May 1973**

ES-10038 CALIBRATION GAS CYLINDER INVENTORY EPA Headquarters OPERATIONAL 1972 AUTOMATED. Sheldon, John C, Engineering Technician, Laboratory Support Branch; Howard, Harold E., Computer Programmer, Data Support Branch.

Supports inventory and quality control of gas cylinders, by maintaining a history on the quality of the contents and the location and quantity of the cylinders.

A monthly report is produced showing manufacturer's analysis of gas cylinder content, EPA analysis data, vendor name, cylinder number, date received, location of cylinder, and date cylinder returned. The laboratory branch of the Mobile Source Pollution Control Program utilizes this report.

Information is entered into the system at four different times: when the gas cylinder is received, when the contents are analyzed, when the cylinder is moved, or when the cylinder is returned. There are five FORTRAN application programs utilizing 12,416 bytes of core on the University of Michigan's IBM System 370/167 with an IBM System 360/20 at MSPCP, Ann Arbor, Michigan. The file contains 700 80-character records.

ES-10091 LABORATORY INVENTORY SYSTEM (LIS) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Randecker, Victor, Chief, Laboratory Resources Branch.

Provides administration with utilization data from laboratory facilities associated with the Office of Research and Monitoring.

A Laboratory Inventory System Use Summary Report was produced, containing the following elements: building name, use of room, area of the room in square feet, number of employees occupying the room and location. The report was used to predict future configuration of laboratories and analyze the present utilization.

On a one-time basis, all laboratory facilities associated with the Office of Research and Monitoring reported their resources to the Laboratory Resources Branch by a specific format. The information was entered via a terminal using the WYLBUR generalized software package. The system has one application program written in FORTRAN and operates on the NIH IBM 370/165. The data base has not been updated since the initial entry of data.

ES-10123 PERSONAL PROPERTY SYSTEM (PPS) EPA Region 6, Dallas OPERATIONAL 1972 AUTOMATED. Slagle, E. W., Chief, Support Services Branch; Cumbie, T., Senior Programmer, Technical and Administrative Data Support Branch.

Aids in accounting for personal property: its acquisition, cost, manufacturer identity, survey, and use.

The output from this program parallels the one being implemented by NERC, Cincinnati, and NERC, Durham, on behalf of EPA Headquarters. It is intended for the Support Services Branch in performing its various tasks associated with the management of personal property, budgeting and planning, disposal actions, and utilization rate. No day-to-day inputs have been introduced into the system at survey time, but the program has been tested and is considered operational.

The ADP file is created and the only steps required are the UPDATE and REPORT GENERATION sequences. The various programs are: EDIT (in free format) UPDATE, EQUIPMENT ROSTER (which lists property items), and FORMS GENERATOR. All are written in PL/1 for use on the IBM System 370/155 computer via UCC terminals. The number of records in the file is unknown since no realistic, full-scale data input has

been made. Minimum core requirement for the largest program is 100,000 bytes; each record has been designed to be 200 bytes long. Environment is batch, keyboard, punched cards, and medium-speed printer.

ES-10153 REGIONAL PROPERTY INVENTORY SYSTEM EPA Region 10, Seattle OPERATIONAL 1972 AUTOMATED. Bates, Amos D., Supervisor, General Services Section; Riemann, Robert W., Computer Specialist, Data Systems Section.

Aids the Support Services Branch in controlling EPA personal property by providing sorted and itemized inventory of all personal property.

One computer printout is produced of all personal property in Region 10, listed by custodial area and old decal number. This printout is used by the Support Services Branch to make annual physical inventories of all personal property. Major informational elements of the system are old and new decal numbers, old and new voucher numbers, property category, custodial area, accountable area, manufacturers name, serial and model numbers, nomenclature of property and remarks.

When a new item of personal property is received, a record is created by completing a personal property system input coding sheet. This record is keypunched, verified, and manually edited. The original input sheet is then sent to the NERC in Cincinnati for input into the National System. Data is stored both on punched cards and in Boeing's time-sharing system by custodial area and old decal number. Records are purged upon notification that the item is no longer under custodial care by the general services section. Software for the system consists of one specialized and locally developed program written in PL/1. The system requires 100,000 bytes of core on Boeing's IBM System 370/155. An IBM 2780 terminal is used to input the data.

ES-10192 SERVICE CARD SYSTEM (TSERG) NERC, Las Vegas OPERATIONAL 1963 AUTOMATED. Coulter, Robert W., Acting Chief, Engineering Branch; Moore, John H., Systems Analyst, Data Acquisition and Analysis Branch.

Provides custodial control of electronic, electrical, and electromechanical equipment; corrective maintenance documention, preventative maintenance scheduling, calibration, running inventory, failure rate, and program utilization data; labor and material service costs and accumulative historical data. Similarily, documents craft, facility, and developmental work order requests; yields current and projected job status with accumulative costs.

Several reports are prepared for various uses: Monthly service card reports list labor and materials required to maintain equipment. Listings can be produced by an categorical sequence as required by fiscal management, program officers, and maintenance coordinators. Monthly work order card reports list craft, facility, and developmental effort (labor and materials). Various categorical listings can be produced as required. Quarterly reports of items 1 and 2 summarize staff effort and material expenditures.

New equipment data are initially keypunched on reference cards from a coding form sheet. From this card a supply of service cards are punched with only the property number and nomenclature of the equipment. One service card is used for each service cycle which starts the day an item is calibrated, progresses to issue date, return date, contains complete documentation on services required to recertify the item ready for issue, and finally ends with the manual entry data keypunched for monthly reporting. The system consists of seven application programs written in FORTRAN and operating on AEC's CDC 6400 computer with a minimum core requirement of 45,000 words. **System Revised May 1973**

ES-10193 GENERAL SERVICES PROPERTY REPORT (GSAPR) NERC, Las Vegas OPERATIONAL 1971 AUTOMATED. Remington, Robert L., General Services Officer, General Services Branch; Allison, George C., Systems Analyst, Data Acquisition and Analysis Branch.

Aids the General Services Branch in accounting for all AEC personal property in the NERC by maintaining an inventory.

Four Property Inventory listings can be produced as follows: original order by property number,

alphabetically by nomenclature, alphabetically by custodian, and numerically by property class. All reports contain the following data: a custodian code, property number, nomenclature, serial, acquisition date, purchase order, acquisition cost, expense cost, federal property classification code and use code. The information provided is used by the General Service Officer to maintain an accurate inventory of equipment charged to the NERC and to provide the AEC with a quarterly status of this inventory.

All changes, additions or deletions to the inventory are transcribed onto the Property Inventory Coding Form for keypunching. The cards are listed for editing and validation before entering the system. The files are updated and sorted as desired by type of report requested. Reports are produced quarterly. The system consists of one application program written in COBOL and operating on AEC's CDC 6400 computer requiring a minimum core of 24,000 words.

ES-10215 NON-EXPENDABLE PROPERTY SYSTEM EPA Lab, Ada, OK INACTIVE 1972 AUTOMATED. Kingery, J., Mathematical Statistician, Robert S. Kerr Water Research Center.

Aids in controlling personal property by providing an accountability and utilization record of all non-expendable property, together with the associated actions of procurement, transfer, and disposal.

The program is currently inactive and produces no reports.

Each non-expendable property item purchased is coded. Data are keypunched from coding sheets and verified. System uses four application programs written in FORTRAN and operates on an IBM 1130. Records are stored on punched cards. **System Revised May 1973**

ES-10227 SPACE UTILIZATION SYSTEM EPA Headquarters OPERATIONAL 1969 MANUAL. Perry, Jack, Facilities Officer, Facilities Management Branch.

Aids in assigning floor space, and maintains an inventory of space utilization.

A monthly report is published which lists the number of EPA employees located in the 18 facilities in Durham, Raleigh, and Research Triangle Park. An annual report lists the facilities and their floor plans. The reports also contain lease costs, total and per square foot costs, of the leased office and warehouse spaces.

Input data consists of population summaries submitted monthly by the administrative officer of each EPA facility and major organization in North Carolina. Twenty such reports are received. A housing plan is also submitted, on an annual basis, by the administrative officer to show floor space occupancy by category.

ES-10228 REPAIR AND IMPROVEMENT RECORD FILE EPA Headquarters OPERATIONAL 1971 MANUAL. Campbell, Frank S., Special Projects Officer, Facilities Management Branch.

Provides administrative and financial control over status of cases and administrative actions for EPA facilities repair and improvement programs.

A monthly Facilities Management Project Status Report is the only formal report produced. It is used by the Facilities Management Branch as a reference for answering queries by the Data and Support Systems Division for budgeting and work scheduling; by the Fiscal Division for combining facilities costs with the remainder of EPA budgeting; and by the region's, NERCs and laboratories for an official statement of funds for repairs and improvements. Major informational elements are project description, name, location, manager, priority, projected costs and expended funds, and administrative events and their dates.

A record is created on a formatted card each time a project is established in EPA. Initial entry is extracted from a project listing of tasks funded from the Fiscal Division. Updates are made from information extracted from engineer project reports, commitments register, obligation ledger, expenditures from contract charges, and purchase orders. File contains 100 records, which are purged from the file upon project completion. Plans are underway to automate the system in the near future.

ES-10234 COMPUTER EQUIPMENT INVENTORY EPA Headquarters OPERATIONAL 1971 MANUAL. Mobley, J. David, Manager, Computer Operations, Data Branch.

Assists in maintaining control over usage of computer equipment by maintaining cost and related data on computer equipment.

No reports are produced. A computer equipment inventory list is maintained showing type, manufacturer, model serial, ownership status, aquisition date, maintenance contract arrangements, purchase cost, and monthly maintenance and rental costs. The Data Support and Administrative Support Branches utilize this list to answer inquires.

The list is updated whenever a new piece of computer equipment is obtained, with information supplied by the vendor. The list contains 23 entries. **System Revised May 1973**

ES-10235 LABORATORY ANALYTICAL INVENTORY SYSTEM EPA Headquarters DEVELOPMENTAL 1972 MANUAL. Jones, Paul W., Acting Chief, Facilities Services.

Aids administrative control of equipment by maintaining a current list of all equipment systems in the laboratory at NSPCP, Ann Arbor, Michigan.

Prepares one report and equipment list showing item number, description, status, building location, area location condition of equipment, and new location. This list will be used by the Laboratory Support Branch to maintain inventory control and answer inquiries, and by the property officer to validate the Research Triangle Park property offices equipment list..

After a physical inventory of the facility is made, the list will be updated upon receipt of equipment. One-thousand records are anticipated on the list.

ES-10269 PERSONAL PROPERTY CONTROL FILE EPA Region 7, Kansas City OPERATIONAL 1970 MANUAL. Bridges, Robert W., Chief, Support Services Branch.

Aids the Support Services Branch to account for all personal property assigned to Region 7.

No formal reports are produced. Used primarily to verify EPA Headquarters' property and inventory listings and aids in locating personal property. Also used as the basis for the preparation of purchase orders for annual machine maintenance contracts. Informational elements are the product name, type of furniture or machine, identification number (decal number), serial number, program, and name of person to which property is assigned, and remarks.

A record is created on a formatted card for each new item of accountable personal property purchased for Region 7. Notification is obtained via copy of Purchase Order, Fed Strip, or transfer Document. Equipment identification and decal number are extracted from the source document, and recorded on the card. File contains 400 cards. **System Revised May 1973**

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ES-10015 INTEGRATED FINANCIAL MANAGEMENT SYSTEM (IFMS) EPA Headquarters OPERATIONAL 1969 AUTOMATED. Demers, Leo, Chief, Financial Systems Branch; Kaplan, M., Systems Analyst, Financial Systems Branch.

Provides an integrated summary of financial information as well as detailed cost and related data required for planning in accordance with General Accounting Office and OMB requirements to all of EPA.

Reports are extracted from the basic integrated file. They fall into the categories of status and summary reporting in addition to control and miscellaneous reports. The major reports depict appropriations by object class, allowances, obligations by program element and by sub object class. The system reports provide an EPA wide instrument for financial planning, budgeting, expenditure and overall control by management at all echelons.

The system presently receives accounting transactions from accounting points: Washington, Cincinnati, Durham, Las Vegas, Corvallis all the Regions. The processing sequence: Direct input to the Computer is transmitted weekly. Financial data is mailed from the NERC's to the accounting points where it is encoded to tape and transmitted to Headquarters. Accounting reports are received as direct feedback via the terminal. The ultimate system design will allow all regions to receive all financial information directly over the terminal. Once a week a batch control program is run to verify inputs and the output is returned to the accouting points and Regions for verification, reconciliation, and resubmittal. The valid data is merged with the previous week's master file by using the UPDATE Program. The UPDATE Program produces: reject file, general ledger file, history file and a new master file. Four weekly reports: Batch Listings, Reject Listing, Accepted Transactions Listing, and General Ledger, and the monthly reports are produced from consolidation of all files. Payroll data is input from the DIPS and HEW systems and the payroll unit. Both are converted to accounting input format and processed bi-weekly as outlined above. Grants data is preprocessed monthly in a similar manner as payroll and regular transactions. Grant transactions are received from three sources: NIH (Air Pollution), The Region and EPA Headquarters. The system is run on an IBM System 370/155 with a minimum core requirement of 116,000 bytes. There are 70 application programs. Regional offices input via Data 100, IBM 1130,IBM 2780 **System Revise May 1973**

ES-10040 AUTOMATED COMMITMENT REGISTER - NSPCP EPA Headquarters OPERATIONAL 1972 AUTOMATED. Hinman, John E., Chief, Administrative Branch; Howard, Harold E., Computer Programmer, Data Support Branch.

Supports financial management by displaying monetary commitments for the Mobile Source Pollution Control Program by Division and as a whole.

Five semi-monthly reports are produced, which are used by Division Chiefs for cost control and error checking. A blanket purchase order (BPO) summary shows BPO number, total spent, and funds remaining. A Commitment Register details obligated funds against a Common Account Number. The division accounting totals display committed funds by object code against a common account number. An object code summary shows obligated funds by object code for each Common Account Number. The update register details new transactions for a 2 week period by Common Account Number. Four reports are produced monthly for use by the Administrative Branch for monitoring Division cost control and to report financial information to Washington. A BPO summary displays total spent and funds remaining by BPO number. Report of account numbers by program element shows funds obligated in each program element by accounting code. An account number summary details total funds obligated for each account number. Report on the status of funds details, by program element amount authorized per quarter, personnel costs, other in-house costs, equipment costs over $25,000, total direct CPS, project dollars per quarter, research grants certified, total certified R&D contracts, UNEX, balance per quarter, and funds available for R&D contracts per quarter.

Input is semi-monthly by Division Chiefs on new transactions. Three tables are contained in the system: the new Commtable file, the random Update file and corresponding fields to be updated, and the table for status report Fundtable file. Five application programs utilized 300,600 bytes of core on the University of Michigan's IBM System 360/67 with an IBM System 360/20 at the Ann Arbor facility. The master file contains 4,500 135-character records. **System Revised May 1973**

ES-10109 FINANCIAL MANAGEMENT SYSTEM EPA Region 3, Philadelphia DEVELOPMENTAL 1972 AUTOMATED. Gold, Charles, Chief, Financial Management Branch; Bunce, Ronald, Chief, Data Processing Support Branch.

Provides division managers with a residual dollar amount remaining in allotment, with payroll cost accumulated and subtracted. Residual is amount remaining for transactions expenditures to year end and assuming no new hires or terminations from current salary level. Will provide rapid summary data. Plan is to tie in with Headquarters Financial Management System on HEW's computer in Rockville, MD.

Four monthly output reports are used by divisional and regional managers for control of resources.

Residual dollar reports provides division manager with dollar amount remaining in allotment. Object class cost within program element number report indicates cost breakdown by object class for program and division. Division cost of program elements report lists totals by program for each division. Total division cost report shows monthly total costs.

Direct keyboard data entry from input reports of division dollar amounts made to the financial management base. A daily edit listing is run, and the file is maintained daily. Monthly financial reports are printed for regional Divisions and Headquarters' units. Will consist of 6 COBOL application programs on the IBM System 360/40 with a required minimum core 80,000 bytes.

ES-10112 FINANCIAL MANAGEMENT SYSTEM (FMS) EPA Region 4, Atlanta DEVELOPMENTAL 1972 AUTOMATED. McBride, W., Chief, Financial Management Branch; Davis, R., Chief, Data Systems Branch.

Will aid financial management by providing a listing of status of funds by Division, and by Program Element.

Three weekly reports which are Account Status by Division, Status of Allowance by Program Element, and Historical File, will provide allowance and expenditure information by Division within the Region and by program element. The Historical file will show the same information in a cumulative format.

Detailed inputs will be transcribed on a coding sheet and sent to NERC Durham; the same coding sheet will be forwarded to the local ADP Section at Region 4 for input to a BCS file designated for Region 4 use. The structure of the file is not determined at this time since the effort is in the conceptual/specifications writing stage. Local-use file will have edited and updated data, sorted and personnel manning data will be introduced off-line to produce a Manning Status Report by Division/Account number. The report generation will then be done. The system is deliberately restricted, and will probably phase out as soon as the national system is responsive.

ES-10116 COMMITMENT REGISTER EPA Region 5, Chicago DEVELOPMENTAL 1972 AUTOMATED. Rochin, Leo, Chief, Financial Management Branch; Abraytis, Jon, Computer Programmer, ADP Services Branch.

Will support financial management by maintaining amount of money committed, obligated, and available for all activities in Region 5 by account number.

This developmental system will produce a monthly Commitment Register showing account number, document number, commitment number, total dollar amount, date, and description. Data is sorted by account number, then date, then commitment number, giving monthly totals within date and account number. Balance of account, monthly totals, and grand totals will be rendered. The General Support Services Branch will use the system for financial control.

Input from the Document Register will be given by the General Support Services Branch. Consisting of 4 application programs written in ASSEMBLY, the system operates on an IBM System 370/165 and a DATA 100 with a minimum core requirement of 40,000 bytes.

ES-10124 FINANCIAL MANAGEMENT SYSTEM (FMS) EPA Region 6, Dallas OPERATIONAL 1972 AUTOMATED. Smith, R., Chief, Financial Management Branch; Cumbie, T, Senior Programmer, Technical and Administrative Data Support Branch.

Provides financial information for planning, management, and monitoring status of funds.

The system provides a periodic financial management statement by account number and area of activity, (air grants by municipalities and states; water quality enforcement; refuse act permits; water quality studies), by object class within account number and by account number. The information is primarily used by the Financial Management Branch and ultimately by the regional administrator in his daily management decisions.

The system currently operates in batch mode, but is being revised to an interactive configuration. The general outline of the system conforms to the EPA Headquarters concepts. FMS is on the IBM System 370/155 which is accessable through UCC 1035 terminals. The minimum core requirement is estimated to be about 120,000 bytes; the largest file has about 94 records of 160 bytes each. Eleven application programs were done in PL/1. Environment is batch, keyboard, on-line, medium-speed printer.

ES-10129 FINANCIAL MANAGEMENT SYSTEM EPA Region 7, Kansas City OPERATIONAL 1971 AUTOMATED. Myers, William H., Chief, Financial Management Branch; Florence, Cecil E., Chief, Data Systems Branch.

Provides the Financial Management Branch and program managers with an accounting of all program subelement numbered accounts showing accrued costs and remaining unobligated balance.

The major report produced by the system is a Report on the Status of Funds, which is a bi-weekly computer printout used by all regional division directors, the Financial Management Branch, and the Programs Plans and Development Branch. Recipients of the report use it to monitor expenses and the accounts for which they are responsible. One report on monthly man-hour costs of categorical programs division is produced for the division director. This report accounts for employees costs by month rather than by pay period to match the division's monthly activity information system.

System obtains input from two major sources. Personnel data concerning man-hour costs are obtained from an employee card file in which a record is maintained on each employee's salary and benefits. This file is updated each time a Form 52 is submitted that affects salary or health benefits. Data from the form is keypunched and replaces the old record. A bi-weekly listing is verified by the Financial Management Branch for editing and errors are noted for correction. A second listing of all employee's is developed showing hours worked and associated hourly salary costs. A third file is made combining the first two files to show man-hours cost incurred by account number. This file is used to update the commitments file and to replace projected personnel costs with actual costs. A fourth file is generated using the original card file to project the next pay period's personnel costs. Another major source of input data comes from the obligation ledger where entries are keypunched on obligations, disbursements, and refunds. Each line constitutes a transaction and is made and corrected as necessary. Costs are then accumulated by account number and merged with personnel costs for a total accounting of all region expenditures. System contains 20,000 records, averaging 80 bytes per record. Two application programs written in FORTRAN operate the system. Core requirements are 16,000 bytes and the system is run on an IBM 1130.

ES-10135 TIME DISTRIBUTION SYSTEM EPA Region 8, Denver OPERATIONAL 1972 AUTOMATED. Traylor, Duane E., Chief, Planning and Resources Branch; Entzminger, Thomas A., Chief, Computer Systems Branch.

Supports fiscal accounting and program planning by providing program managers with a record of personnel expenditures in time, salary, and benefits charged to program elements.

This system produces five bi-weekly reports. Four are used by division managers for monitoring workloads and planning effort and monetary expenditures for each of their program elements. They show current hours expended in four different formats. A bi-weekly financial management report is also produced showing for each account number names of individuals, pay period, hourly rate, hours worked, benefits,and total pay to date.

Individual employee daily time records are submitted bi-weekly to the Management Division for one of three conditions: An employee is in an account number other than his fixed account number, works more than 80 hours, or status is other than permanent full time, permanent part time, or temporary full time. Otherwise standard calculations are made from a master file for the individual. The systems four programs are written in FORTRAN and utilize 17,934 bytes of core on Boeing Computer Services IBM System 370/155 with a DATA 100 in Region 8. The largest file contains 50,000 eighty-character records.

ES-10136 PAYROLL CHECK REGISTER (PCR) EPA Region 8, Denver OPERATIONAL 1972 AUTOMATED. Lewis, Alan B., Chief, Financial Management Branch; Laforest, Dietrich, Programmer, Computer Services Branch.

Facilitates the identification of personnel who did not receive a payroll check or who did not receive the correct amount of pay.

A payroll check list is produced bi-weekly showing social security number, name, check number, amount and account charged on they payroll. This report is used by the Financial Management Section to verify rapidly the personnel who did not receive a check.

Treasury checks are matched against the Region 8 personnel data system. A "no match" indicates either "no check received", or "no person on file for this check." These "no matches" are then checked manually. This system consists of one application program utilizing 5,000 bytes of core on an IBM System 370/155 at Boeing Computer Services, and a DATA 100 in Denver.

ES-10154 REGIONAL MANAGEMENT SYSTEM (RMS) EPA Region 10, Seattle OPERATIONAL 1971 AUTOMATED. Steinborn, Daniel, Program Analyst, Program Planning and Development Branch; Riemann, Robert W., Computer Specialist, Data Systems Branch.

Provides financial control over all program subelement accounts for the Financial Management Branch and program managers by providing bi-weekly account balances and accrued costs.

One bi-weekly printout provides listing of all program subelement numbered accounts with their associated costs on salary, travel, etc. and an ending period account balance. This report is used by all program managers and the Financial Management Branch to monitor all expenditures for the program subelements for which they are responsible and to determine bi-weekly account balances.

Manhour costs are input into the system from the Personal Information Subsystem every 2 weeks. All manhour costs are accumulated and assigned to a program subelement number. Personnel costs are input from the commitments register, verified and manually edited. Data is entered into the Boeing's Time-Sharing System via an IBM 2780 terminal. A series of ten application programs, written in PL/1, are used to accumulate costs by program subelement number, merge personnel costs with non-personnel costs, update the system, and generate reports. A minimum of 250,000 bytes of core is required on Boeing's IBM System 370/155.

ES-10155 PERSONAL INFORMATION SUBSYSTEM EPA Region 10, Seattle OPERATIONAL 1972 AUTOMATED. Steinborn, Daniel, Program Analyst, Program Planning and Development Branch; Riemann, Robert W., Computer Specialist, Data Systems Branch.

Accounts for all manhour costs incurred in Region 10 and provides this information directly to the Regional Management System. It also generates reports for the personnel department to meet the EPA Headquarters reporting requirements.

Reports are produced on an as-required basis: One major report concerns average civil service grade and training, which are produced on an IBM 2780. The system's major output however is data which is used as cost input into the Regional Management System in the form of manpower costs by program subelement number.

At the beginning of each fiscal year, a copy is made of the NIH Wylbur personnel file of Region 10 employees. This file is updated using data taken from the Personnel Action Form 52. Data are entered into the system via the IBM 2741 terminal. Manhour data is obtained from timekeepers on each employee from an individual daily activity record which is keypunched, verified, and machine edited for entry into the system via an IBM 2780. Training data is obtained on a local form from the personnel branch, keypunched and entered. Two application programs, written in PL/1, are used to calculate manpower costs by program subelement number and generate a standard report on training and average grade. The system is run on Boeing's Computer system and requires a minimum of 200,000 bytes of core on an IBM System 370/155.

ES-10162 COMMITMENT LISTING FOR PERSONNEL COST NERC, Cincinnati DEVELOPMENTAL 1972 AUTOMATED. Ruhe, R. A., Financial Manager, Cincinnati Accounting Operations Office; Nime, E. J., Chief, Computer Operations Cincinnati.

Aids the Cincinnati Accounting Office in projecting personnel costs for more precise budgeting by listing personnel costs by account number for future pay periods.

System produces one report on project personnel costs. Major information elements of the system are: program element number, employee position, grade, name, and social security number. It is used to compute salaries for posting to a commitment register and also for budget projections, pay raise computations, employee counts, and payroll corrections.

Data is captured on punched cards creating two files. Personnel data such as name, civil service grade, is merged with payroll data. Merged data is manipulated by two FORTRAN application programs to produce a report showing salaries by employee, total salaries for the branch, employee count by permanent and non-permanent computation of wages for current month and by estimated benefits. The system operates on a IBM System 360/30 with a minimum core requirement of 10,000 bytes. **System Revised May 1973**

ES-10166 TRAVEL ADVANCE SYSTEM NERC, Cincinnati OPERATIONAL 1972 AUTOMATED. Ruhe, R. A., Financial Manager, Cincinnati Accounting Operations Office; Nime, E. J., Chief, Computer Operations Cincinnati.

Provides the Cincinnati Accounting Operations Office with an accounting of all travel advances in order to determine outstanding advances for individual employees.

System produces a monthly report on travel advances by social security number, name and allowance codes. Additional information provided is date, document type, document number, account number, account name, debit, credit, and balance. The Accounting Operations Office uses the data as the subsidiary ledger of the travel advance account.

Data is collected on an encoder tape from payment and collection documents relating to travel advance transactions as they are processed in the normal accounting flow. The encoder tape is used to make the run of current month's transactions. A card file is inputted to provide a look-up table for name and allowance codes. Cards are routinely added to the file for advances to new employees or changes in allowance codes. After the edit and sort, the transactions are inputted to the tape containing all the transactions for the current fiscal year. The total fiscal year transactions are run to show balances outstanding by the employee name and social security number and allowance holder. The ADP environment is: batch, Encoder tape usage, COBOL, high-speed printer, main file of 4800 records of 140 BYTES each, IBM System 360/30. The system consists of 3 application programs, and has a minimum core requirement of 65,000 BYTES. **System Revised May 1973**

ES-10167 STATUS OF FUNDS/COMMITMENT (VOST) NERC, Cincinnati OPERATIONAL 1969 AUTOMATED. Anderson, J. B., Deputy Director, Analytical Quality Control Laboratory; Julian, E. C., Staff Programmer, AQC Laboratory.

Provides administrative control over fund management and is used by the Laboratory Director to assess laboratory expenditures and and commitments.

System produces three basic reports listing Commitment Register, sorted Commitment Register by Laboratory working sections and individual sections and in summary form the commitments are classified by object class, section, ROAP number and program element number.

Commitment Register entries with necessary data information is keypunched and verified. Seven FORTRAN application programs or subprograms are used to sort the data and generate the reports. **System Revised May 1973

ES-10170 SALARY DISTRIBUTION (FOSM) NERC, Cincinnati OPERATIONAL 1969 AUTOMATED. Anderson, J. B., Deputy Chief, Analytical Quality Control Laboratory; Julian, E. C., Staff Programmer, AQC, Laboratory.

Allows the Laboratory Director to assess biweekly and cumulative program salary expenditures by working sections.

The system provides one report concerning a summary of salaries costs by section, and by Research Objective Achievement Plan (ROAP), and by Program Element. Four report copies are provided to Program Managers for review and analysis of expenditures incurred.

System uses employee time cards and salary information as input to calculate bi-weekly and cumulative salary costs. Cumulative costs are retained in the system to serve as a basis for the next costing cycle. Input is keypunched and verified. System environment is batch, language is FORTRAN; minimum core requirement is 25,000 bytes. Largest file is 1,000 records of 9 bytes each. The system now runs on an IBM System 360/30, but is being readied for use on the Boeing Computer Services Inc. IBM System 370/155. **System Revised May 1973**

ES-10173 OBLIGATION DOCUMENT GENERATOR NERC, Cincinnati OPERATIONAL 1971 AUTOMATED. Ruhe, R. a., Financial Manager, Cincinnati Accounting Operations Office; Nime, E. J., Chief, Computer Operations Cincinnati.

Aids the Cincinnati Accounting Operations Office to account for obligations and expenditures.

One report listing the appropriation number, date, vendor name, transaction code, document number, commitment number, fiscal year, CAN number, object class and amount is produced and used for obligation accounting.

A punched card is prepared for each vendor. Punched cards are also prepared for each recurring obligation showing financial data and vendor codes. Commitment numbers, dates, and a prefix to the document number are assigned by computer program. Cards are then processed to produce an obligation document monthly report. System contains two application programs written in FORTRAN and operates on an IBM System 360/30 with a minimum core requirement of 10,000 bytes. **System Revised May 1973**

ES-10194 FINANCIAL INFORMATION SYSTEM NERC, Las Vegas OPERATIONAL 1968 AUTOMATED. Fitzpatrick, Paul T., Administrative Officer, Financial Management Office; Moore, John H., Systems Analyst, Data Acquisition and Analysis Branch.

Aids budgetary control by providing the Financial Management Office and major program offices with current and cumulative financial status on expenditures, commitments, and obligations.

Several major financial control reports are prepared monthly during the fiscal year. Fund-Balance Report, Fund by Project Report, Project by Object Class Report, and Salary and Benefits by Organization/Fund. Also produced as supplemental information is a detailed breakdown of all transactions by fund, project, and object code. The reports contain similar information: total allotment, average monthly allotment, obligations and disbursements of each month. They are used by the Financial Management Office major project officers in budget preparation, controlling of the current budget, and management of personnel, contracted equipment and operational resources.

Accounting data is entered on a Posting Data Transfer sheet for keypunching along with personnel data. An edit program checks each transaction card for errors. These cards are used to update the disk files. Various algorithums are used to manipulate the data and to develop salary and benefits for personnel. Several programs are used to generate the various combinations and levels of reports required. The system consists of 15 application programs written in COBOL and FORTRAN and run on ABC's CDC 6400 computer using a minimum of 65,000 words of core. Files are maintained on disk. **System Revised May 1973**

ES-10216 FINANCIAL MANAGEMENT SYSTEM (FMS) EPA Lab, Ada, OK OPERATIONAL 1972 AUTOMATED. Kingery, J., Mathematical Statistician, Robert S. Kerr Water Research Center.

Provides management with the capability for integrated planning and conduct of daily operations in budgeting and accountability of funds, status of personnel resources, and efficient utilization of manpower.

The three subsystems of the financial management system each provide a set of reports bi-weekly, or on demand, to management to to assist them in day-to-day operations, management, budgeting, and overall program planning. The personnel subsystem provides specifics about employees such as: grade, pay scale, qualifications and skills, name, ID number, date of birth, social security number, position, education and location. The time and attendance subsystem provides manpower-related cost information by account, and by project and acquires most of its data from the personnel subsystem. The accrual accounting subsystem provides manpower and all cost information by program element and account, and derives most of its data from the two subsystems.

The system comprises twenty application programs, six for personnel, three for T and A and eleven for accrual accounting, with development limited to retrieval variations. Data is passed from the personnel subsystem to the time and attendance subsystem via disk: and from T and A to accrual by punch card; data from accural accounting to T and A is via disk. The system is basically a batch operation, digital, disk and printer oriented. Minimum core for the largest program is 16,000 bytes because of IBM 1130 limitations. The largest file consists of 1,800 records of 106 bytes.

ES-10285 FINANCIAL MANAGEMENT/PERSONNEL RECORDS EPA Region 9, San Francisco OPERATIONAL 1972 MANUAL. Kohnert, Karen, Budget Analyst, Financial Management Branch.

Aids division director in monitoring personnel hours worked by project and for reporting personnel hours worked to EPA Headquarters.

A quarterly report is prepared summarizing personnel hours worked by division by project. The report is used by division directors to monitor on-going projects and in the preparation of future budgets. Time cards are prepared for input into DIPS.

Time sheets are received bi-weekly giving the individual's name, organization and hours worked on each project. Cards, used for input into DIPS, are completed from this input. The data is summarized quarterly and a report showing total hours worked by organization on each project is prepared.

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ES-10017 EPA LIBRARY SYSTEM EPA Headquarters OPERATIONAL 1971 AUTOMATED. Thomas, Sarah, Chief, Library Systems Branch; Needle, Lester P., Computer System Analyst, Management Information & Data Systems Div.

Provides a centralized source of literature holdings in the form of journals, books and microform materials of interest to EPA. Each library in the system submits data on its holdings to EPA Headquarters where a computerized data base is maintained and a print-out of holdings is produced for all libraries. The EPA Headquarters library provides back-up support to all EPA libraries in economic, social, administrative, legislative and management information. In addition, there is a central technical focal point in the agency library system at the NERC Cincinnati library which also maintains a computerized network of information services.

The manual segment of the EPA library system consists of the Acquisition sub-system and the circulation sub-system; the computerized segment of the library system also consists of two major focal points: one at EPA Headquarters and one at NERC Cincinnati. Although each EPA library may enter into local inter-library arrangements, the system as a whole is internal i.e. information on its holdings is not transmitted to non-EPA libraries. The EPA

Headquarters library includes three computerized sub-systems: Budget sub-system, (Dormant), Journal Holdings (Automated and Operational), and Book Holdings (Automated and Developmental). The Journal Holdings sub-system, gathers the journals from each of the 37-odd libraries in EPA. (Journal Title, Library location, holding data i.e., volume number and dates held, journal ID code) and thereby enables each member library receiving this report to select, acquire or loan to each other the journals filed in the system. The Book Holdings report (title, subject areas, author, publisher, LOC classification, library ID, volume number, year of publication) provides the same service in the book area as the Journal Holdings report does in its area.

Significant processing steps are as follows: For Journal Holdings, the member libraries forward library cards and listings or renewal notices to EPA Headquarters. The EPA library updates the file via terminal. Currently this is done semi-annually, in the future annually. Two holding reports are produced: one by library holding and one by journal title. For Book Holdings: the member libraries forward library cards and listings to EPA Headquarters. Accessions are forwarded to a single processing point (EPA Headquarters or NERC Cincinnati). Following this, data is keyed into the computer on-line, and then the file is updated. Currently this is done weekly or daily, in the future semi-annually. Three reports are produced: author listing, subject listing, book catalogue listing, acession lists. The eventual plan is for each library to input directly to central files via terminal. The largest file of the Journal Holdings sub system contains 4500 records of 120 bytes each: the Book Holdings, 5500 records of 130 bytes. Journal requires 5 application programs: Book, 10-15 programs. The environment for both sub-systems is: keyboard, on-line, medium-speed printer, magnetic tape. Both sub-systems use WYLBUR and IBS, IBM System 370/165 with disk packs, and require a minimum of 200,000 bytes of core for the largest program.

ES-10032 ENVIRONMENTAL INFORMATION SYSTEMS INVENTORY EPA Headquarters OPERATIONAL 1972 AUTOMATED. Haley, Neil B., Supervisory Management Analyst, Management Information and Data Syst Division; Cohen, Victor G., Computer Systems Analyst, Management Information and Data Systems Division.

Provides management with a basis for systems planning and determining information requirements and assists users in identifying information sources and software availability.

Two major semi-annual outputs are produced from the systems inventory data base: published Environmental Information Systems Directory and unpublished Reference Index of Environmental Information, Systems Hardware and Software. The directory consists of an announcement section organized by generic administrative and mission support categories. Each system inventoried is identified and described by objectives, information products, and significant processing steps. Three indexes (subject, organization, and systems manager) provide cross references to announcements. The reference index contains, in addition to subject terms from the directory index, a profile of systems by hardware utilized, programming languages, operating environment, input and output characteristics, contractors, documentation, and availability.

Resumes on information systems are sent to the Management Information and Data Systems Division by systems managers and data processing representatives. After a review to assure that all information has been obtained, a precis of system features is prepared and subject terms profiling a system are selected. Resume data in free form is inputted by terminal and maintained by WYLBUR software on disk files. Three programs are used to extract, manipulate, and format directory proofs and camera-ready copy for printing. Subject term vocabulary is controlled by an editorial review of index proofs. Changes are keyed to the original resume base. Printouts of resumes can also be obtained by terminal or high speed printer. Directory software is written in COBOL and operates on an IBM System 370/165 with a minimum core requirement of 100,000 bytes. Access is through EBCDIC or ASCII compatible terminals. **System Revised May 1973**

ES-10042 LIBRARY FILES EPA Headquarters OPERATIONAL 1972 AUTOMATED. Matzo, Augustin D., Chief, Data Support Branch; Cheng, Jensen P., Statistician, Data Support Branch.

Aids information referencing by maintaining a data base of all books in the Mobile Source Pollution Control Program's (MSPCP) Ann Arbor library.

As needed book listings are produced by the system, showing author, title, publisher, and content code. The librarian uses this list for reference and locating books by subject.

The file is updated as needed with input from the librarian on new book purchases. There is one application program, written in FORTRAN and utilizing 153,800 bytes of core on the University of Michigan's IBM System 360/67 with an IBM System 360/20 at Ann Arbor MSPCP. **System Revised May 1973**

ES-10089 PROJECT INFORMATION RETRIEVAL SYSTEM (PIRS) (PROJECTS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Johnson, Dion, Technical Information Specialist, Program Information Branch; Hall, Marguerite L., Computer Specialist, Management Information & Data Systems Div.

Primarily seeks to improve the efficiency and advancement of environmental research by disseminating information on active and completed research, development and demonstration projects funded by EPA to EPA regional representatives, EPA laboratories, NERCs, offices, and other selected EPA personnel. Secondarily seeks to facilitate administrative control over EPA, RD&D project management.

No formal reports are produced. Output is information retrieved by the EPA regional representative, NERCs, offices, EPA laboratories, and Washington Headquarters personnel via remote terminals. Major informational elements are identifying numbers; project investigator's name and organization; responsible EPA organization and address; cost data; completion schedule; title; and abstract.

A new record is created upon receipt of an Offer and Acceptance Document and copy of the appropriate contract from the Grants Administration Division or the Contracts Management Division or upon the receipt of appropriate data on in-house tasks from the EPA program planning cycle. Relevant data are extracted and noted on a coding sheet, which is then sent to contractor for MTST keying. An edited listing is returned to EPA for verification. Corrections are noted on a listing and sent to the contractor for rekeying. The corrected MTST tape is transcribed into machine-readable magnetic tape for storage on the Comnet Time Sharing System. Update is made via remote terminal for project changes in cost data, etc. File contains 4,000 records, averaging approximately 1,800 bytes per record. No records are planned for purging. System uses no specialized application programs. STIMS/RECON, a generalized software package written in ASSEMBLY, is used for searches and retrievals. System requires 180,000 bytes of core on an IBM system 360/65/50 for operation. System is part of the ENVIRON System. **System Revised May 1973**

ES-10092 ANALYTICAL METHODS INFORMATION SYSTEM (AMIC) NERC, Cincinnati OPERATIONAL 1971 AUTOMATED. Garrett, Luther e., Director, Research Information Division; Weiner, Lawrence J., Computer Systems Analyst, Program Information Branch.

Seeks to advance the subject of water and waste water analysis and increase its efficiency by disseminating information to EPA and other government agency analysts on analytical methodology.

One monthly report is produced by the system and is used mainly by Cincinnati's NERC analysts, EPA regional laboratories, and other water analysts for reference on new techniques and research methods. Additional output is information dissemination via terminals on the total information base used by those organizations mentioned above for a comprehensive reference on analytical methodology. Major informational elements are the title of the publication from which the methodology was extracted, the author, date of publication, an abstract, and references.

New information is inputted into the system by Battelle Columbus Laboratories (BCL). BCL is under contract to EPA to collect, evaluate, select, abstract and input data on current literature of analytical

methods. Data are edited and entered into the BCL time sharing system via paper tape. File consists of 5000 records, averaging 750 bytes per record. Systems uses BASIS, a generalized software package written in FORTRAN, for search and retrieval. Software requires 160,000 bytes of core to operate the system on a CDC 6400. No specialized application programs are used. **System Revised May 1973**

ES-10093 FINAL REPORTS FILE (FINR) EPA Headquarters OPERATIONAL 1968 AUTOMATED. Dovel, John, Chief, Publications Branch; Hall, Marguerite L., Computer Specialist, Management Information & Data Systems Div.

Increases the efficiency and advances environmental research by disseminating information on all research publications and reports sponsored by Research and Monitoring to EPA, other government agencies, and the general public.

No formal reports are produced by the system. Output is information disseminated via remote terminals to EPA regions, NERCs, and laboratories for analysis. The major informational elements included in the system are report name, number, author, cost, task number, program element number, project officer, source, and report abstract.

A copy of all Research and Monitoring sponsored reports is sent to the Research Information Division by R&M organizations. Relevant data is extracted, entered on coding sheets, and sent to a contractor for keying on an MTST tape. A tape listing is made and edited by the Publications Branch. Corrections are noted on listing and then keyed. The tape is converted to machine-readable magnetic tape for system input. Reports are batched in 2-week to 1-month increments for processing. The file currently contains approximately 500 records of 1,200 bytes each. The system uses no specialized application programs. It relies on the STIMS/RECON generalized software package, which is written in ASSEMBLY, for searches and retrievals. The system requires 180,000 bytes of core storage in an IBM System 360/50 and 360/65 for operation. The system is part of the ENVIRON system.

ES-10101 REGIONAL MAP COLLECTION INDEX EPA Region 2, New York OPERATIONAL 1972 AUTOMATED. Durfor, Charles N., Chief, Water Programs Branch.

Provides an index to 7.5-minute series, topographical maps which include all of Region 2.

The index of the map collection is output on an as required basis. This report is used by the Water Programs Branch to inventory the topographical maps used to locate water programs data collection points, river mile index points, and related data.

When a new or revised USGS 7.5-minute data topographical map is received, identification of the map is extracted and a punched card is made. The card deck is loaded into IBM 1130 whenever a list is required. The system consists of 1 FORTRAN application program on an IBM 1130, with a minimum core requirement of 1100 words.

ES-10183 AUTOMATIC INDEXING BY KEYWORD (KWOC) NERC, Corvallis DEVELOPMENTAL 1972 AUTOMATED. Byram, K., Computer Systems Analyst, Consolidated Laboratory Services.

Aids document retrieval by providing an automatic means of indexing through use of title keywords.

System output is a list of titles and authors, publication, year, and library number together with an array of key words extracted from the title to facilitate document retrieval.

Author and title cards are keypunched and transmitted via DATA 100 remote terminal to a CDC 3300 at Oregon State University for storage and retrieval.

ES-10184 TELEPHONE DIRECTORY NERC, Corvallis OPERATIONAL 1972 AUTOMATED. Byram, K., Computer Systems Analyst, Consolidated Laboratory Services.

Aids in improving internal and external communication by providing a current telephone reference of all employees in NERC, Corvallis.

System output is a telephone book listing all personnel and and their telephone numbers. It is also used for a personnel locator.

Cards are keypunched either as an original action or as the result of receiving a corrected telephone listing of a previous edition. Cards are read into the computer via the DATA 100/70 terminal. The system uses a CDC 3300 computer at Oregon State University and the DATA 100/70 at NERC. Programming for the three application programs is in FORTRAN. Minimum core requirement for the largest program is 26,000 bytes. The largest file consists of 500 records averaging 60 characters each. The environment is batch with output on the local printer.

ES-10270 PUBLICATIONS AND REPORT SYSTEM EPA Region 7, Kansas City OPERATIONAL 1972 MANUAL. Hoduski, Bernadine E., Librarian, Support Services Branch.

Enables the region library to answer inquiries on all reports and publications produced or sponsored by Region 7.

No formal reports are presently produced. Plans are being made however, to produce a listing of all publications produced and sponsored by Region 7 and to disseminate this list to all EPA Region 7 personnel as well as other EPA personnel and to government agencies. The system is also used to check the accuracy of the NTIS, WRSIC, GPO, and HARC systems for all Region 7 inputs to these systems. Major informational elements are the author's name and organization, report preparation date, report title, key retrieval words, accession number, report number, report abstract, Library of Congress order number, and classification number (Library of Congress and Superintendent of Documents).

A system record is created each time a report is produced and a report bibliographic data sheet is prepared and sent to the library. Upon receipt, each record is edited for accuracy by the librarian in reference to the report itself. Errors, such as may occur in title terminology are corrected and brought to the author's attention. After all connections have been made, the original sheet is stored by report number. No plans are being made to purge the file of any records. File contains over 20 records. **System Revised May 1973**

ES-10310 TECHNICAL REPORTS SYSTEM NERC, Las Vegas OPERATIONAL 1963 MANUAL. Tate, R. Dennis, Chief, Office of Technical Reports.

Distributes technical reports on radiation levels on and around the Nevada Test Site (NTS); research on radiation related to NTS activities, and research on radiation not related to NTS activities.

These periodic reports are distributed to the AEC at Oakridge, TN, the National Technical Information Service (NTIS), Department of Commerce, Springfield, VA and a selected list of interested organizations depending on content. The reports are designed to make people aware of the latest research in radiation and to be employed as a reference source.

The rough draft of the report is received from the project coordinator or researcher for final preparation for publication. The draft is edited, typed, and illustrated for subsequent review. Once reviewed by the author and approved by the cognizant authority, the report is published and distributed. **System Revised May 1973**

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ES-10008 MINORITY IDENTIFICATION FILE EPA Headquarters OPERATIONAL 1971 AUTOMATED. Mayronne, Ferguise N., Equal Employment Opportunity Officer, Equal Employment Opportunity Branch; Needle, Lester P., Computer Systems Analyst, Management Information & Data Systems Div.

Facilitates in producing semi-annual reports required by the Civil Service Commission by maintaining statistical information of minority employment within the Environmental Protection Agency.

Minority statistical distributions on any possible combination of 24 different variables are produced by the system. The Office of Civil Rights and Urban Affairs uses these reports to prepare Civil Service reports, design training programs, and evaluate upward

mobility programs. The reports show minority grouping and female employment by position and grade level by gross figures only.

A master file of 10,000 thirteen-character records is maintained containing only social security number and one of seven minority groupings. This file is run against the DIPS master file to produce required reports. Twenty application programs written in ASSEMBLY on IRS utilize 200,000 bytes of core on the National Institutes of Health's IBM System 370/165 with a DATA 100 at EPA Headquarters. Input is sent in monthly to EPA Headquarters from Regions, NERCs and associated labs using EPA form (Dec 1971) Statistical Record of Minority Groups.

ES-10019 WYLBUR PERSONNEL REPORTING SYSTEM EPA Headquarters OPERATIONAL 1971 AUTOMATED. Martineau, John R., DIPS Personnel Coordinator, Operations and Services Branch; Grosse, William C., Supv, Computer Systems Analyst, Management Information & Data System.

Increases personnel management efficiency by disseminating current personnel information to EPA program managers.

System produces over 72 reports as follows: eight consist of various types of alphabetical employee listings; 19 concern personnel organizational listings and personnel statistics by organizational listings and personnel statistics by organization, such as age, salaries, etc.; 6 concern personnel listings by geographical area; 9 concern civil service class series; 5 are on male/female statistics; 7 concern special recurring Reports for the Assistant Administrator for Planning and Management; and the remaining 18 cover miscellaneous information. Reports are used for many different personnel management functions and for manpower analysis. Another important output is retrieval and manupulation of individual or group records.

System input is principally derived from an abbreviated file of the Departmental Integrated Personnel System (DIPS) every 2 weeks. In effect, a totally new file is created every 2 weeks. This abbreviated DIPS file (short query file) is on magnetic tape and is modified from 800 bpi to 1600 bpi and loaded onto two WYLBUR data sets. Data on Public Health Service commissioned officers is added to the file via terminal at this point. File contains over 9,000 records, averaging 130 bytes per record. Data is stored in 2 EPA dedicated disk packs. WYLBUR data sets are divided into regional and NERC subfiles, which are then ready for data manipulation and report generation. System also contains an on-line library of report-generating programs written in COBOL and a generalized inquiry and report software package IRS, written in ASSEMBLY. File maintenance is performed by a generalized software package called WYLBUR, written in ASSEMBLY, and used for entry of commissioned officers data. System is operated on the National Institutes of Health's IBM System 370/155.

ES-10020 DEPARTMENTAL INTEGRATED PERSONNEL SERVICES SYSTEM (DIPS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Martineau, John R., DIPS Personnel Coordinator, Operations and Service Branch; Grosse, William C., Supv., Computer Systems, Management Information & Data Systems Div.

Pays EPA personnel and aids management by producing personnel accounting reports for analysis and reference.

Approximately 182 reports covering personnel management, employee statistics, and payroll are produced. Payroll reports concern state and federal taxes, allotments, benefits, etc. Personnel Management reports concern numbers and types of employees by grade and occupation, minority disposition, leave, promotions, geographic location of employees, etc. Payroll reports are used for financial planning, management, and auditing purposes. Personnel management statistics are used both for internal personnel management and for reports required by the Civil Service Commission. Other principal output of the system is a bi-weekly payroll check for EPA employees.

A record is created for each new EPA employee. Data is placed on a personnel data code sheet which is transcribed to a coding sheet capable of being optically scanned. Personnel changes initiated in a Form 52 are also placed on optical scan sheets for submission to Headquarters. Mass change sheets involving groups of employees is another form of update. In addition, certain data affecting all EPA employees, such as a pay raise, is entered directly at EPA Headquarters. All such updates are mailed to Washington for scanning and editing and are placed on a transaction tape which updates the DIPS master file biweekly. Timecards are sent in by the field for keypunching and are put on magnetic tape for system entry bi-weekly. About 150 application programs written in ASSEMBLY and using a generalized software IRS package, manipulate data and produce reports. System contains over 9000 EPA records and operates on an IBM System 360/65 requiring 796,000 bytes of core.

ES-10043 ANN ARBOR PERSONNEL REGISTER EPA Headquarters OPERATIONAL 1972 AUTOMATED. Hinman, John E., Chief, Administrative Branch; Howard, Harold E., Computer Programmer, Data Branch.

Supports personnel management including position control, strength and salary reporting, and vacant positions, by maintaining a current personnel data base.

Six reports are produced semi-weekly by the system. The Washington Personnel Report shows vacancies by grade and is used by Washington, Ann Arbor, and Cincinnati for hiring purposes. An Ann Arbor Personnel Report shows an organizational schedule of employees, and is used by Washington, Ann Arbor, and Cincinnati personnel to control positions and grade levels; a permanent and temporary employee summary shows average salary and average grade for Ann Arbor, Rockville, and all MSPCP personnel. This is used by the Administrative Branch for grade control Three reports - Average Grade Point by Division, Authorized and Filled Positions by Division, and Authorized and Filled Positions by Program Element - are used by Cincinnati personnel support.

Two tables are utilized in information processing: one for common account conversion and one to convert grades to salary. Semi-monthly input is received from the Ann Arbor Administrative Support Branch on accessions and vacant positions. There are three application programs utilizing 11,038 bytes of core on the University of Michigan's IBM System 360/67 with a 360/20 at Ann Arbor MSPCP. The file contains 172 130-character records. **System Revised May 1973**

ES-10096 PERSONNEL INFORMATION SYSTEM EPA Headquarters OPERATIONAL 1972 AUTOMATED. Edgar, Robert, Deputy Chief of Resource Management Branch.

Provides administration with a current "as it actually exists" inventory of personnel in Office of Research and Monitoring.

Three reports are prepared monthly: Organizational Schedule of Employees Research and Monitoring, Alphabetical Schedule of Employees Research and Monitoring and Program Element Organizational Schedule of Employees Research and Monitoring. These reports contain the following information: position title, grade, position occupied by social security number, position type, geographical location, common accounting number, program element, salary, position number and organizational code. The reports are used by headquarters and field management in the following ways: accessing on-board organization strength and authorized vacancies as compared with allowance or ORM ceilings; checking program element on-board and authorized strength; and providing ready reference to locate employees and present summary and other data as required.

Reports from the previous month are sent to the field for correction and updating. Input is returned via mail or magnafax. The changed data is entered into the system by terminal where it is selectively edited. File maintenance is performed using WYLBUR generalized software and report generation using IRS commands. Consisting of ten application programs, the system operates on the NIH IBM System 370/165 using UCC 1035 terminal for direct input.

ES-10102 PERSONNEL INFORMATION SYSTEM EPA Region 2, New York OPERATIONAL 1972 AUTOMATED. Insinga, Richard, Management Analyst, Program Planning and Development Branch; Smith, Ethan T., Chief, Data Systems Branch.

Provides management with a current inventory of personnel.

A Personnel Report containing the names, program element numbers, grades, organization by division and branch, and status of all personnel is produced monthly. The report is used to analyze on-board organization strength and authorized vacancies as compared with allowance or ceilings and to exercise personnel ceiling control.

All Requests for Personnel Actions, SF52s, are keypunched monthly and entered via an IBM 1130 into a personnel file maintained by the Boeing Computer Services computer. The input is selectively edited and files are updated. Reports are prepared as required. The system consists of two application programs written in COBOL and FORTRAN and operates on the Boeing Computer Services IBM System 370/155 with a minimum core requirement of 12,576 bytes.

ES-10113 MODIFIED DIPS PERSONNEL SYSTEM EPA Region 4, Atlanta OPERATIONAL 1972 AUTOMATED. Davis, R., Chief, Data Systems Section.

Accounts for all Region 4 personnel costs by program subelement number to exercise management control over the expenditures and budgeting of funds.

Several reports are produced from the file concerning information as to employee's name, position title, grade, class, position incumbent, social security number, sex, location, position number, salary by account number, and service date. The information is used by the Personnel Management Branch staff concerned with personnel cost accounting and administration.

Processing steps include correction of alphabetical machine listing by Personnel Management Branch staff, or submission of new name via office memorandum; keyboard entry of corrected or new data into EPA Headquarters system; running of the program. There is no software modification to the national-level system. The program uses IBM System 370/165 at NIH for information processing and storage, together with Region 4 DATA 100 for file modification. The software is written in IRS; minimum core requirement for the largest program is 100,000 bytes. File contains 450 records each consisting of 130 bytes. The environment is keyboard, on-line, using a medium-speed printer.

ES-10117 TELEPHONE DIRECTORY EPA Region 5, Chicago OPERATIONAL 1972 AUTOMATED. Newmann, Manfred G., Chief, Graphic Arts Branch; Abraytis, Jon, Computer Programmer, ADP Services Branch.

Maintains a current listing of Region 5 personnel, their organization, location, and phone number.

A weekly telephone directory containing the above information is produced by this system to be utilized by all personnel.

Weekly input is provided by the Personnel Branch for the purpose of updating the system. Three application programs utilize 60,000 bytes of core on an IBM System 370/165 at NIH with a DATA 100 in Region 5. There are 500 records on the master file.

ES-10125 PERSONNEL MANAGEMENT SYSTEM (PMS) EPA Region 6, Dallas OPERATIONAL 1972 AUTOMATED. Hankinson, David R., Chief, Personnel Management Branch; Cumbie, Thomas A., Computer Programmer, Technical and Administrative Data Support Branch.

Aids regional personnel branch staff in daily management and planning functions by providing a list of personnel according to fifty-six descriptive information displays.

The variety of output formats from the integrated file may be inferred from the following tabulation of report versions by grade and pay plan accounts: age; education level; location of employment; organization code; series; minority groupings; retirement plans; life insurance plan; tenure groups. Other reports are: salary levels by pay plan and sex, salary levels by minority; roster of EPA employees; listing of employees by education code and name with total salary and average grade and salary for each education group; listing of employees by sex code and name with total salary and average grade and salary for each group; listing of employees by minority group and name with total salary and average grade and salary for each group; listing of employees by tenure code and name with total salary and average salary and grade for each code; listing of telephone directory; produces copies of blank personnel coding forms; group list of organization totals salary and grade; organization symbols by grade pay plan, sex and minority; alphabetical listing of EPA employees; listing by symbols of EPA employees; accounts by sex; series by sex; organization by sex; accounts by minority; series by minority; organization by minority; group listing of account totals, salary and grade; group listing of symbols total salary and grade; listing by class series with grade and salary averages; listing by location with grade and salary averages; grade averages by organizations, symbols and accounts; listing by organization with grade and salary averages; listing by accounts with grade and salary averages; listing by symbols with grade and salary averages; listing by service computation data.

The program is written and the master file compiled. The only steps required in any future transaction is to punch UPDATE cards and edit inputs. Selected printouts are available on the basis of option card inputs. Eventually, the updating and editing will be done on on-line keyboard or CRT as soon as the system incorporates that feature. The system is run on IBM System 370/165 via UCC 1035, COPE 1225 terminals. Minimum core required is 100,000 bytes. Largest file is 300 records of 300 bytes each. There are about 80 PL/1 applications programs. Environment is batch and keyboard. **System Revised May 1973**

ES-10133 CATEGORICAL PROGRAMS EMPLOYEE WORK RECORD EPA Region 7, Kansas City DEVELOPMENTAL 1973 AUTOMATED. Townley, Donald A., Director, Categorical Programs Division; Florence, Cecil E., Chief, Data Systems Branch.

Enables the Director of the Categorical Programs Division to evaluate program accomplishments and manhours expended.

Computer printouts on an as-required basis are planned to measure and classify the workload of the Categorical Programs Division over varying periods of time. Such an accounting will enable the division director to evaluate the effectiveness of the programs in his division with far greater precision than is possible by program subelement number. Major informational elements are employee's name, hours worked by program subelement, activity, mode of activity (i.e., on-site visit, telephone, etc.), recipient for whom work was done (includes government and private organizations), and state within which the recipient is located.

Each employee accounts for his time daily on a scratch sheet, apportioning it by activity performed to the nearest hour. At the end of each week, these hours are transferred by the employee to a coding sheet, which provides space for employee's name, week, ending date, and total weekly hours worked by program, activity, mode, recipient, and state. Code sheet is keypunched, verified, and manually edited. All resulting records (weekly) are stored on punched cards. FORTRAN routines are being developed to run on the IBM 1130 in Region 7, requiring a minimum core of 16,000 bytes.

ES-10137 PERSONNEL DATA SYSTEM EPA Region 8, Denver OPERATIONAL 1972 AUTOMATED. Traylor, Duane E., Chief, Planning and Resources Branch; Entzminger, Thomas A., Chief, Computer System Branch.

Supports personnel functions including the areas of equal opportunity, position control, strength and salary reporting and personnel services.

A semi-monthly personnel staff report is produced showing name, grade, type of appointment, EOD, organizational code, and start-in-grade date, by organization title. Allocated vacant positions are indicated as such. A two-part telephone directory is produced from the file on a monthly basis showing name, phone number, and room number, alphabetical listings, and part two contains an organizational listing. Also contained in the data base are the employee's zip code, home phone, ID, sex, social security number, fixed account number, job title, and

home address. Personnel Branch, Planning and Resources Branch, Equal Employment Opportunity Section and the Regional Administrator use this system to carry out their personnel functions.

Card input is provided semi-monthly on accessions, attritions, and corrections by the Planning and Resources Branch. This system has seven application programs in FORTRAN and PL/1 utilizing 11,810 bytes of core on Boeing Computer Services IBM System 370/155 with a DATA 100 in Denver. The largest file at this time is 246 records with an average of 320 characters per record.

ES-10165 EMPLOYEE LOCATOR AND DIRECTORY NERC, Cincinnati OPERATIONAL 1972 AUTOMATED. Castelli, J. A., Chief, Facilities Management & Services Branch; Nime, E. J., Chief, Computer Operations Branch.

Aids the Facilities Management and Services Branch in managing personnel space allocation throughout all laboratory facilities and producing a telephone directory.

System output consists of personnel listings on computer printouts as required. System includes such information as employee name, amount and location of space used. These reports are used to determine amount of space used and to generate such budget information as cost per square foot.

Personnel rosters are circulated to each staff agency to make corrections for updating. Listings are used to key corrections into the NIH time sharing system via a remote terminal. Ten application programs written in IBS are used and operate on an IBM System 370/165 requiring a minimum core of 65,000 bytes.

ES-10229 PERSONNEL SYSTEM EPA Headquarters OPERATIONAL 1968 MANUAL. Colglazier, Leona C., Chief, Processing Unit.

Aids the Personnel Management Division to respond to queries on personnel data on EPA employees in North Carolina, and in laboratory operations in Perrine, Florida; Chamblee, Georgia; Montgomery, Alabama and Wenatchee, Washington.

Three major reports result from systems operation. A monthly Strength Report Summary lists the number of both permanent and temporary personnel assigned to various EPA units in North Carolina and in laboratory operations in Perrine, Florida; Chamblee, Georgia; Montgomery, Alabama and Wenatchee, Washington. The Employment Security Commission of North Carolina receives a quarterly report of federal employment and wages. A Monthly Report of Government Employment is used by the Department of Labor for statistical purposes.

Initiates personnel action when persons are employed by completing applicable sections of SF-7. Updates and maintains file when any action occurs such as a change of grade, leave status, or job title. These actions are reported to EPA Headquarters via the DIPS system, but a manual backup system is maintained in order to retrieve information rapidly. **System Revised May 1973**

ES-10248 POSITION CONTROL FILE EPA Region 1, Boston OPERATIONAL 1970 MANUAL. Larkin, J.P., Chief, Personnel Branch.

Aids Personnel Branch in managing Region 1 personnel by accounting for all Region 1 personnel. resources.

The information recorded on the SF7 is used by the Personnel Branch for internal information and input into DIPS and by the Financial Management Branch in its annual budget cycle.

Initiates personnel actions when applicable sections of the SF7 are completed. Updates and maintains file when actions occur such as change of grade, leave status, or job title. The actions are reported via DIPS to EPA Headquarters.

ES-10271 TRAINING INFORMATION SYSTEM EPA Region 7, Kansas City OPERATIONAL 1970 MANUAL. Swalwell, James E., Chief, Personnel Branch.

Enables the Personnel Branch to answer all inquiries on the status of the training program and submit an annual training report to the Civil Service Commission.

One report is derived directly from the system. Statistics are compiled and serves as input to the annual training report. System also serves as a source of information to answer queries on training by EPA Region 7 branch chiefs and division directors. Major informational elements are the trainee's name, sex, and civil service grade; course of study; total hours of course; date of course; associated travel cost; tuition cost; course cost; and location and training category (such as management, clerical, etc.)

A record is created upon receipt of a Department of the Interior Form DI-510 training request or an interagency training request, Form OF37. Appropriate information is extracted and is written into a preformatted sheet which contains three records. Each record is retained for 2 fiscal year's from the fiscal year it was entered into the file. File contains 300 records, stored chronologically.

106 PROGRAM PLANNING AND MANAGEMENT

ES-10001 LEGISLATIVE REFERENCE SYSTEM EPA Headquarters OPERATIONAL 1971 MANUAL. Tucker, Leona R., Legislative Specialist, Office of Legislation.

Supports the legislative responsibilities of the Environmental Protection Agency by maintaining the current status and control of the Environmental Protection Agency's comments on federal environmental legislation.

A quarterly report, bills pending assigned to (name) as of (date), is produced by this system. It is used by the Office of Legislation to maintain control and monitor comments being made on a bill. A KARDEX file utilizing Form No. 1-153 (November 1958), a LINDEX File, and a classification file by subject categories, are maintained by the Office of Legislation to answer inquiries on status of the legislation. A main file on each bill is also maintained containing detailed records of all congressional action and testimony and all EPA actions.

Input and updates to the system are on a daily basis triggered by any transaction on a bill EPA is tracking, such as a comment letter, hearings, congressional recorded entries. There are 490 entries at the present time.

ES-10021 RESOURCES MANAGEMENT INFORMATION SYSTEM (RMIS) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Wolz, C. T., Chief, Systems Branch; Platt, H., Senior Programmer, Systems Branch.

Facilitates presentation of program planning data for review and analysis of Agency goals, commitment of resources, and accomplishments. The RMIS provides a basis for budget execution. All funds and manpower resources administered by EPA are included.

The large number of reports affect three broad EPA areas; RPIO, MPM and budget. The reports depict resource, funding, and manpower requirements by fiscal year, program element, and organization.

EPA Form 3500-1, Resources Schedule, is filled out and inputted to the computer on-line. Changes are entered as transactions which are edited by computer program and the master files updated therefrom. Financial Management is subsequently provided tables of authorized sub-elements, organization codes, and appropriation authorization's for establishing accounts. It is also provided allowance data. Reports generated at headquarters are mailed to appropriate addressees (MPM, RPIO). The program review cycle is repeated when administrators issue new guidelines, and RPIOs submit new proposed program plans. **System Revised May 1973**

ES-10097 LABORATORY OPERATIONS DIVISION MANAGEMENT INFORMATION SYSTEM (LOD. MIS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Ott, Wayne, Chief, Laboratory Coordination Branch; Genson, H., Research Assistant, Laboratory Coordination Branch.

Aids the Laboratory Divison in exercising administrative control over all the division's projects.

A Laboratory Operations Division (LOD) project

report is prepared weekly showing project numbers, title, start and due dates, priority assigned, estimated man hours to complete, man hours spent to date and a narrative of current status. It is used by division managers to plan activities, review distribution of resources, review progress of projects, identify problems, and analyze distribution of work loads. Upon request, other ancillary reports are available including a list of all project names, responsibility of projects and start dates of projects, man-hours, percent projects completed, projects by individuals, and projects by Branch.

The LOD Management Information System Project Report is distributed weekly to all Branches for update. All new projects are described on a project form giving project name, description, responsibility, start and due date, priority, estimated number of man-hours, number of man-hours spent, percent accomplished and status. After updating, the weekly LOD Project Report, along with new projects, is keyed directly into the system using a CMCTS updating the current file. File maintenance is performed using WYLBUR generalized software on NIH's IBM System 370/165 requiring a minimum core requirement of 8,000 bytes.

ES-10110 REGIONAL MANAGEMENT INFORMATION SYSTEM EPA Region 3, Philadelphia DEVELOPMENTAL 1972 AUTOMATED. Day, Charles, Deputy Director, Management Services Division; Bunce, Ronald, Chief, Data Processing Support Branch.

Will provide information on program accomplishments, new projects and deleted projects, giving managers the capability to measure impact of new projects and change priorities on manpower, money, and space resources.

One major and four minor monthly reports are planned for use by division managers in controling program activities. The divisional program summary will list each program's status, degree of completion, and accomplishmens. The four sub-element reports will list program additions, deletions, deferred, and behind schedule.

A divisional program summary printout will be distributed to project managers to be proofread for corrections and changes. New information and updates will be keypunched into the project accomplishment and completed project files. The system will consist of 8 FORTRAN application programs on Boeing Computer Services IBM System 370/155 with a minimum core requirement of 100,000 bytes. On-line entry hardware has not been determined.

ES-10138 PLANNED ACCOMPLISHMENT STATUS REPORT EPA Region 8, Denver OPERATIONAL 1972 AUTOMATED. Traylor, Duane E., Chief, Program Planning and Resource Branch; Entzminger, Thomas A., Chief, Computer Systems Branch.

Monitors the status of activities implemented to meet pollution abatement standards on River Basins as set down in area accomplishment plans.

A monthly Planned Accomplishment Status Report for each river basin is prepared by EPA's Region 8 Divisions, showing responsible party, sub element number, activity number, activity description, completion date, actual completion date, percentage complete and new completion date. The Management Division uses this report to monitor completion of activities and to update pollution control strategy wall charts.

An accomplishment plan addressing the water quality control needs of a specific river basin is developed with governmental and industrial consultation by Region 8 and specific tasks and plans are established to meet the agreed objectives. Each task, with its responsible individual and completion date, is entered into the system via punched card. The system has two operational programs utilizing 15,000 bytes of core on Boeing Computer Services IBM System 370/155 with a DATA 100 in Region 8. There are 400 three-hundred-character records on the file.

ES-10139 WEEKLY ACTIVITY REPORT EPA Region 8, Denver OPERATIONAL 1972 AUTOMATED. Occhino, Ann Y., Secretary to Regional Administrator; Entzminger, Thomas A., Chief, Computer Systems Branch.

Monitors status of administrative and functional actions to assure work schedules are met.

Weekly reports show each planned activity, its due date, and to whom the activity was assigned. Reports are used by division and branch chiefs to schedule work.

The Regional Administrator's secretary is the control point for this system by inputting weekly activities assigned by the Regional Administrator, staff meetings, or official correspondence, using the automated activity file form. This system consists of one application program written in FORTRAN, utilizing 600 bytes of core on an IBM System 370/165 at Boeing Computer Services Inc. with DATA 100, Denver. **System Revised May 1973**

ES-10147 PROJECT REPORTING SYSTEM (PSR) EPA Region 9, San Francisco DEVELOPMENTAL 1973 AUTOMATED. Thompson, James E., Chief, Management Systems Branch; Obinada, Shumsuke, Environmental Specialist, Management Systems Branch.

Will provide the Financial Management Offcer and major program and division officers with the current and cumulative financial status on expenditures, commitments and obligations to facilitate planning.

Two reports will be prepared by-weekly, an Organizational Report and a Project Report. The former will list each project assigned to each division broken down by Branch and Section. The second report will list by organizational unit the program elements assigned to that project. Both reports will contain similar information: organization; project code, program element code, personnel costs, all non-personnel transaction costs, total allotment, obligations, and current and projected expenditures. The reports will be used for internal management of projects and to aid in future planning.

All official sources of accounting cost data such as travel, training and procurement vouchers along with personnel time by organization and hourly rates and benefits obtained from DIPS are keyed directly onto magnetic tape. Programs check each transaction for errors before being used to update the current files. Several algorithms are used to manipulate the data and to develop personnel costs. A report generator is used to develop the reports as required. Consisting of 8 application programs written in PL/1, the system operates on an IBM System 370/165 with a minimum core requirement of 350,000 bytes.

ES-10230 MONTHLY STATUS REPORTING SYSTEM EPA Headquarters OPERATIONAL 1971 MANUAL. Randolph, Ann, Staff Assistant, Program Review and Reporting Division.

Aids management control by disseminating to all levels of EPA management the status and degree of accomplishment of implemented programs.

Reports detailing the status of key planned activity within program areas, are broken down by major organizations through branch level. Monthly reports show planned versus actual accomplishments, listed under each major organizational entity, with estimated dates for completion. Quarterly reports show detailed meaningful program status information from which management may initiate corrective planning, programming or budgeting steps if deemed necessary.

The monthly narrative inputs received from each headquarters staff element are collated and edited prior to publication. Reports are due in by the sixth of the month, and the status report is published by the twelfth. A new reporting system is being designed as part of the Program Review and Reporting Division's Management Information System.

ES-10231 OFFICE OF AUDIT STATUS REPORT EPA Headquarters OPERATIONAL 1971 MANUAL. Lisle, John D., Director, Office of Audit.

Provides management with the current status and the problem areas of programs under investigation by the Office of Audit.

A monthly workload analysis report showing the audit status of each program by state is prepared by the Office of Audit for the Assistant Administrator of

Planning and Management and is used by him to brief the Administrator.

A monthly summary of audit workload showing workplan ID, title of audit, date started, estimated completion date, and estimated time required is submitted to the Office of Audit from regional collection points in Chicago, Atlanta, New York, and San Francisco. The report also details audits in process, audits planned, audit requests received, audit assignments completed, significant accomplishments, and problems. There are approximately 150 reports on file.

ES-10243 OFFICE OF RESEARCH AND MONITORING PROGRAM PLANNING SYSTEM EPA Headquarters OPERATIONAL 1972 MANUAL. Murphy, Thomas, Chief, Program Development Branch; Lawrence, Calvin, Supervisory Program Analyst, Program Development Branch.

Provides assistance to the Office of Research and Monitoring (OR&M) in meeting research needs of EPA through a formal process of identifying research needs, defining specific research objectives, developing detailed plans to accomplish defined objectives, establishing priorities, and assigning resources and responsibilities for executing approved plans. An automated comprehensive Program Review and Management Information System is under development.

In support of these objectives, several plans and reports are prepared. The Office of Research and Monitoring Program Plan is used for review and approval of OR&M objectives, priorities, and resource requirements by the EPA Administrator and Office of Management and Budget. Fiscal Year Work Plans assign specific tasks, milestones and target dates for implementation of OR&M objectives in accordance with agency resource allocations and provides a mechanism for control of all OR&M Extramural Resource Expenditures. Need feedback assures that OR&M's plans are responsive to sponsor's research requirements and distributes research output to users.

Program plans are developed from candidate research objectives submitted to OR&M both formally and informally by sponsors or senior EPA research affiliates. Requirements are shown in order of priority on an Environmental Research Need Statement. Need statement tile, program element number, identification number, priority, and status code are maintained on Bowne Time Sharing's Word/One System. Sorted listings are distributed to Need Sponsors, National Environmental Research Centers, and Headquarters personnel at significant points in the OR&M Program Planning Cycle. OR&M Program Managers review and synthesize objective inputs in assigned area of responsibility into OR&M objectives which are documented on Environmental Research Objective Statements (EROS). Program Element Directors use EROS to prepare detailed Research Objective Achievement Plans (ROAP) to meet EROS objectives and output criteria. Each ROAP identifies the tasks, schedules, performing activities, and resource requirements. Program Management Plans and Support Plans are also prepared for all OR&M personnel and facility support costs not accounted for in a ROAP. ROAP's, Management Plans, and Support Plans are received annually for inclusion into OR&M program plans for the upcoming fiscal year. After EPA approval, resources and work plans for the fiscal year are issued to allowance recipients. These assign implementation responsibilities and authority to commit resources. An automated program review and management system to assess status of planned versus actual OR&M achievements and output is under development. **System Revised May 1973**

ES-10253 REGIONAL MANAGEMENT INFORMATION SYSTEM EPA Region 2, New York DEVELOPMENTAL 1973 AUTOMATED. Baker, William, Chief, Program Planning and Development Branch; Smith, Ethan T., Chief, Data Systems Branch.

Will provide the Regional Director with a means to determine program status, accomplishments, new projects, and deleted projects. It also will provide the capability to measure the impact of new projects and changed priorities on manpower, money, and space resources. All information will be summarized from divisional inputs. The system is presently in the conceptual development phase.

Under Development.

Under Development.

ES-10263 STATUS OF PLANNING REPORT EPA Region 5, Chicago OPERATIONAL 1971 MANUAL. Hirt, Harlan D., Chief, Planning Branch.

Supports river basin water quality planning by monitoring the status of program-progress of water quality management plans.

A monthly status report is produced showing river basin description, the date interim plans were received and approved, the percent of basin covered, and the percentage of the plan completed. The Planning Branch of the Air and Water Division utilizes this report to answer inquiries on the status of plans, and to monitor its development and implementation.

Data is entered when a state or local agency submits its river basin plan. The file is updated as processing steps and implementations occur. There are 1,000 records on the file.

ES-10264 EPA ECONOMIC DISLOCATION EARLY WARNING SYSTEM EPA Headquarters OPERATIONAL 1972 MANUAL. Brueckmann, Adolph M., Chief, Economic Assistance Branch.

Provides advanced warning of threatened and actual employment losses as a result of enforcement actions to the Department of Labor and EPA Headquarters.

Through an interagency agreement EPA Regional Headquarters provides the corresponding Department of Labor Regional Headquarters with economic dislocation information on threatened and actual employment losses as a result of enforcement actions. This information includes plant identification data, nature of control problem, nature of dislocation, probable reasons for dislocation and impact on local economy. A quarterly National Re-cap Summary is sent to EPA Headquarters where two EPA Economic Dislocation Early Warning System In-House Summary Reports on threatened and actual employment losses are prepared and forwarded to the Department of Labor Headquarters for information purposes.

EPA regions collect the economic dislocation information in-house or from plant-supplied data. There are approximately 92 records in the file. **System Revised May 1973**

ES-10305 MANAGEMENT REPORTING SYSTEM (MRS) NERC, Cincinnati OPERATIONAL 1972 MANUAL. Schwartz, W. A., Analyst, Office of Program Coordination.

Aids in managing research programs assigned to NERC, Cincinnati by permitting the Director to follow the progress of programs as well as publicizing output within NERC and to EPA Headquarters.

The reports are in the form of Research Objectives Achievement Plans, work plans, list of active projects, quarterly narrative reports, quarterly problem sheets, quarterly planned/actual accomplishments, and semi-annual flow charts of ROAP progression. TREEs are an annual diagrammatic list of active projects, used for display by the NERC Director, in the form of a brochure or wall displays. Quarterly reports consist of narratives, problem sheets, planned/actual accomplishments are assembled in book form for limited circulation in NERC and in EPA Headquarters. The Active Projects Book is a version of TREEs, containing project abstracts and identifications, funding information, person making the investigations and is intended for wide distribution. Flow charts are diagrammatic displays of ROAP progress, prepared semi-annually in brochure format for internal NERC distribution.

The project managers prepare their assigned reports on a regular basis, structuring them along ROAP lines. The laboratory directors collect these reports into a laboratory report and submit them to the NERC Director who then assembles the total NERC output. **System Revised May 1973**

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ES-10002 CURRENT LAW MAILING LIST EPA Headquarters OPERATIONAL 1972 AUTOMATED. Gentry, Lane R., Assistant Director, Office of Legislation; Siktar, Frank J., Computer Specialist, Management Information and Data System Div.

Facilitates the dissemination of current environmental laws and related information as required by the Public Information Act to EPA personnel, Department of Justice personnel, state government officials, and the public.

No reports are produced by the system. Mailing labels containing name, address and affiliation are produced on a demand basis for the Office of Legislation.

Entries are added, deleted, or changed upon notification to the Office of Legislation. Three application programs written in ASSEMBLY on IRS and using WYLBUR utilize 100,000 bytes of core on NIH's IBM System 370/165 with a DATA 100 at EPA Headquarters. The master file has 2,500 records.

ES-10003 PUBLIC AFFAIRS MAILING LIST EPA Headquarters OPERATIONAL 1971 AUTOMATED. Brown, Ruth H., Information Specialist, Communications Services Division; Siktar, Frank J., Computer Specialist, Management Information and Data Systems Div..

Facilitates the distribution of public affairs information including press releases.

No reports are produced by the system. Lists are produced for the Office of Public Affairs, on an as needed basis, in regular or label format by combinations of codes in zip code or alphabetical order.

When the Office of Public Affairs recieves a new entry, it assigns coding based on the individual's profession and area(s) of interest. Eight application programs written in IRS and using WYLBUR, utilize 280,000 bytes of core on NIH's IBM System 370/165 with a Data 100, DATEL 30 & 360/20 at EPA Headquarters. There are currently 24,000 records on the master file. **System Revised May 1973**

ES-10004 PRESIDENTIAL ENVIRONMENTAL MERIT AWARD PROGRAM EPA Headquarters OPERATIONAL 1971 AUTOMATED. O'Donnell, Gladys, Consultant, Regional Support Division; Siktar, Frank J., Computer Specialist, Mgmt Information & Data Systems Div.

Facilitates the dissemination of bulletins to participants in the Presidential Environmental Merit Award Program.

A listing of participants showing name, address, enrollment of school, and type of project is produced on an as needed basis. This is used by the Regional Public Affairs Office to make contact with the organizations. Pinfaced labels are produced in January, March and October for the Office of Public Affairs, EPA Headquarters, to mail out Presidential Environmental Merit Award Program bulletins.

Participants applying to the program use form OMB No. 158-R0089 from which information is entered into the system via a DATEL 30 by the Office of Public Affairs. Input is assigned one of eight codes denoting type of school. Two application programs written in ASSEMBLY on IRS and WYLBUR utilize 130,000 bytes of core on the NIH's IBM System 370/165 with a DATA 100 at EPA Headquarters. There are 3,000 records on the master file.

ES-10005 FOREIGN TRAVEL SYSTEM (FTS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Gregory, Delores A., Director, Division of International Exchange; Hall, Marguerite, Project Officer, Mgmt Information & Data Sys Div.

Facilitates program planning, budgeting, and the administration of bilateral and mutilateral international agreements by maintaining a record of international travel by EPA officials.

A monthly international travel report, showing sponsoring EPA organization, traveler, country visited, and costs is produced for the Office of International Activities. This report comes in five formats, alphabetical by name of traveler; chronological by date of travel; by EPA organization; by sponsor of activity (e.g., U.N., OECD), and by country visited. The same reports are distributed quarterly to division level to help division chiefs plan travel and keep a record of travel costs.

Information from an international travel record form is input monthly via punched card. Twenty-three application programs written in ASSEMBLY on IRS utilize 66,000 bytes of core on National Institutes of Health's IBM System 370/165 with a DATA 100 at EPA Headquarters. There are 500 130-character records on the master file. **System Revised May 1973**

ES-10006 FOREIGN VISITOR SYSTEM (FVS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Gregory, Delores A., Director, Division of International Exchange; Hall, Marguerite L., Project Officer, Management Information & Data Systems Div.

Supports the International Exchange program by maintaining a visitor record, which shows their interests and how EPA officials spend time with them.

A quarterly international visitors list is produced for the Office of International Activities to record each visitor by type and interest and maintain a list of contacts for international travel by EPA officials. The report is listed in five ways: chronologically by travel data; EPA organization visited; category of visitor; and by continent and country of visitor's organization.

Input is via punched card using information from the International Visitor Record form filled out by the Office of International Activities. Twenty application programs written in ASSEMBLY on IRS and WYLBUR utilize 66,000 bytes of core on National Institutes of Health's IBM System 370/165 with a DATA 100 at EPA Headquarters. There are 500 103-character records on the master file. **System Revised May 1973**

ES-10007 FOREIGN ADDRESS LIST EPA Headquarters OPERATIONAL 1972 AUTOMATED. Gregory, Delores A., Director, Division of International Exchange; Hall, Marguerite L., Computer Specialist, Management Information & Data Systems Div.

Facilitates the dissemination of general environmental information to interested foreign, industrial, news media, or governmental organizations.

Mailing labels are produced on an as-needed basis by category of foreign organization, embassies, environmental agencies, government officials, industrial organizations, news media, and international organizations. The Office of International Activities also uses the system to provide a list of international contacts for EPA officials.

Input is on an as-needed basis on a low speed terminal. One application program written in FORTRAN utilizes 66,000 bytes of core on NIH's IBM System 370/165 with a DATA 100 and terminals at EPA Headquarters. There are five hundred 150-character records on the file. **System Revised May 1973**

ES-10014 NIH ACCOUNTING SYSTEM EPA Headquarters OPERATIONAL 1971 AUTOMATED. Cirelli, D, System Programmer, Management Information & Data Systems Div; Hall, Marguerite L., Computer Specialist, Management Information & Data Systems Div.

Accounts for usage of NIH computer equipment and associated costs for all EPA users by listing accounts, their files and costs.

EPA expenditures at NIH are reported to the Project Officer in terms of projects and accounts. These are broken down into cost items, units of cost, CPU time, charges and cost of low speed connect time. The same data is presented in cumulative form. Another section of the report describes equipment utilization and jobs performed.

NIH Form 1767-1, DCRT Account Authorization, is forwarded to the Project Control Office at NIH. After form submission, NIH activates the account. Before the user is notified of his new account and what initials to use a test logging is suggested. A file copy of the form submitted to NIH is retained. Additions/changes to data sets are made on-line using text-handling features of WYLBUR. Disk Accounting Subsystem provides

back-up recovery, VTOC listings, and data set exception reporting. The tape control subsystem (tape identification information) is maintained as an on-line WYLBUR Data Set. Additional tapes are available by calling the NIH tape librarian. Each tape holder is provided with a two-part weekly listing. Jobs are run daily and bi-weekly, and accounting is rendered monthly and semi-annually. **System Revised May 1973**

ES-10022 EPA SECURITY SYSTEM (ESS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Felmley, R. M., Chief, Security and Inspection Division; Needle, Lester P., Computer Systems Analyst, Management Information & Data Systems Div.

Aids efficient personnel utilization from a security standpoint, by speeding the processing of clearance requests and by quickly producing required supporting information.

An alphabetical list of employees with clearance indications and a statistical report are produced monthly for the Security and Inspection Division. The information shows the clearance status of employees, thus enabling the Division to advise management on employee/position matching, to plan acquisition of required clearances, to advise pertinent agencies on termination of cleared employees, and to determine granting or cancellation of clearances.

The Security and Inspection Division receives necessary documentation to undertake clearance action. The Division establishes the employee's security record in the file using WYLBUR. The Division obtains individual clearance reports from the NIH Computer Complex. Consisting of 20 applications programs in IRS, the system operates on an IBM System 370/165 with a minimum core requirement of 200,000 bytes.

ES-10023 SAFETY MANAGEMENT INFORMATION SYSTEM (SMIS) EPA Headquarters DEVELOPMENTAL 1973 AUTOMATED. Crow, Trenton, Chief, Safety Management Branch; Grosse, William C., Supv Computer Systems, Management Information & Data Systems Div.

Will aid the Safety Management Branch in determining cause and effect relationships involved in EPA related accidents to include death, property damage, and personal injury.

The system is under development, and no reports are generated at this time. In the future, reports will be used to detect trends, predict accidents, and provide information to be used in accident prevention. These reports will be input into the Annual Safety and Health Report to the Department of Labor.

All accident reports will be reported via mail using the Supervisor's Report of Accident (EPA Form 1440-1). This report will be reviewed for quality at Headquarters before input into the system where additional selective editing will take place. No decisions regarding software, hardware, or report retrieval programs for the system have been made.

ES-10024 COMPUTER UTILIZATION SUMMARY SYSTEM NERC, Research Triangle Park OPERATIONAL 1970 AUTOMATED. Fulford, Donald, Chief, Systems Programming and Operations Branch.

Improves the management of computers and associated equipment by providing computer system utilization statistics for the management of Research Triangle Park.

The monthly computer utilization reports are printed for use by the Data Systems Division to determine system overhead, job mix, project processing time, and other management control data. Approximately eight thousand separate jobs are being processed monthly in both a batch and a time sharing environment at the Research Triangle Park facility.

When a task requires data processing, a project code is assigned. Utilization statistics are extracted from the input job stream, loaded onto disks and periodically transferred by the IBM System 360 System Management Facilities (SMF). Monthly the data is passed through a sort merge file retrieved by the reporting programs, and used in the production of the computer utilization summary report. The system consists of twenty (20) COBOL, PL/1, FORTRAN, and ASSEMBLY application programs on an IBM System 360/50 with a maximum core requirement of 120,000 bytes. **System Revised May 1973**

ES-10025 EPA STANDARD ORGANIZATIONAL TITLE FILE EPA Headquarters OPERATIONAL 1971 AUTOMATED. Chase, Edward A., Acting, Deputy Director, Management and Organization Division; Shivers, Lloyd, Programmer Analyst, Management Information & Data Systems Div.

Aids in improving management by maintaining an official listing of all EPA organizations to serve as a basis for accounting of both monetary and nonmonetary items and operations by organization.

One report is produced, listing all EPA organizations, to the section organizational level. This listing is primarily used by the Management and Organization Division, the Personnel Management Division, and the Management Information and Data Systems Division as a ready reference on EPA organizations. Also provides input of the organization numbers to such systems as DIPS, the WYLBUR personnel file, the foreign travel system, property management, telephone books, the space utilization system, equal employment opportunity, security, and accounting. Informational elements included in the system are organization title and number.

Organization changes are requested from the field or Headquarters organizations by letter and submitted to the Management and Organization Division. Upon approval, a memorandum is sent to the Management Information & Data Systems Division with the new titles and numbers. Data is then entered into National Institutes of Health's Time-Sharing System via a remote terminal from EPA Headquarters. File contains 1,000 records (one per organization line item), averaging 130 bytes per record and is stored on an EPA disk pack. A generalized software package written in ASSEMBLY is used for input, editing, and retrieval. System is run on an IBM System 370/165. **System Revised May 1973**

ES-10041 EPA BOEING ACCOUNT FILE EPA Headquarters OPERATIONAL 1970 AUTOMATED. Hamm, Gloria, Data Management Assistant, User Assistance Branch.

Enables the Monitoring and Data Support Division to exercise administrative control over EPA's users of Boeing's Time Sharing system by disseminating new information on system use and correcting missent batch output.

The system produces one report, which consists of a computer printout, produced either monthly or as needed. This printout is used primarily by the Monitoring and Data Support Division for administrative control over Boeing's users. It also is used as an aid in disseminating pertinent literature for Boeing users, and, as a reference source, helps in sending the output to the proper location. Informational elements are user number, name, address, location, and telephone number; and type and number of terminal.

A new record is created each time the Division receives a request via telephone. If the request is accepted, the Division telephones Boeing to initiate a new account number and password. Data is then entered into Bowne's Time Sharing system via an Anderson Jacobsen remote terminal. The file contains approximately 300 records, averaging 2,100 bytes per record. Records are stored by account number. WORD ONE, generalized software package written in ASSEMBLY, is used for data entry and retrieval. The system is operated on an IBM System 360/50. **System Revised May 1973**

ES-10045 ENVIRONMENTAL INFORMATION RETRIEVAL ON-LINE (ENVIRON) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Hall, Marguerite L., Project Officer.

ENVIRON provides EPA Headquarters, regions, NERCS and laboratories with on-line access to a user-oriented full-text information storage and retrieval service.

The following services are provided under the ENVIRON contract: Application feasibility study; File analysis and design; Data reduction and conversion; Data storage and file maintenance; On-line interactive query; and Photo composition of output. ENVIRON should be considered for applicatins which have any of the following characteristics: The data base is either textual in nature or it is not practical to codify the contents; The potential user community is composed of differing organizations, missions, or geographic locations; and a majority of the queries performed require: a. Immediate response, b. Browsing atmosphere where the searcher can reformulate in real time the

search strategy based on an examination of the contents of prior requests, and c. Dynamic searches not amenable to a preprogrammed environment. Data base managers with potential applications or organizations with infor- mation needs which may be met by searching the current ENVIRON data base should contact the EPA Project Officer.

The Service uses an enhanced version of NASA's STIMS/RECON written in PL/1 and ASSEMBLY languages. It is run on an IBM 370/65 and is available on-line from 8:00 a.m. to 8:00 p.m. EST. **System Added May 1973**

ES-10114 LABEL PROGRAM EPA Region 4, Atlanta OPERATIONAL 1972 AUTOMATED. Marquez, J., Director, Management Division; Davis, R., Chief, Data Systems Section.

Aids Public Affairs Division in disseminating information to the public, research organizations and news media by providing mailing labels.

Listings and labels bear identical information: name, address, and addressee title in parentheses. Listings are used to maintain currency of correspondents' whereabouts, and to transmit changes/corrections to the Data Systems Section in the preparation of new address listings. Labels are used in mailing reading material.

Addressee lists are grouped into separate functional files; i.e., research institutions in one file, professors in another, physicians in a third. There is no internal edit of data, except for checking card sequence. Consisting of 2 application programs written in COBOL, the system operates on an IBM System 370/155 with a minimum core requirement of 100,000 bytes.

ES-10118 PUBLIC AFFAIRS MAILING LIST EPA Region 5, Chicago OPERATIONAL 1971 AUTOMATED. Carrado, Frank M., Chief, Public Affairs Division; Dipert, Merlin, Chief, ADP Services Branch.

Facilitates information distribution by maintaining a catalogued mailing list of press releases, newsletters, and general environmental information to environmental groups, businesses, schools, news media, and individuals.

No reports are produced by this system. Mailing labels with name, affiliation, and address are produced on a demand basis. Entries are categorized by type, individuals, citizen groups, businesses, news media, officials, schools, Youth Advisory Board (YAB) groups, YAB citizens, radio stations for public service shows and spots. The Public Affairs Branch is the main user but the Pesticide Personnel and Construction Grant Branches receive a selective list every two months for updates.

Input is by card for addition, delete or changes from Public Affairs. Three application programs written PL/1 utilize 96,000 bytes of core on Boeing Computer Services IBM System 370/155 with a DATA 100 in Region 5. There are 10,000 entries on the master file.

ES-10127 MAILING LABELS EPA Region 6, Dallas OPERATIONAL 1971 AUTOMATED. Greene, W., Chief, Management Division; Cannaday, J., Senior Programmer, Technical and Administrative Data Support Branch.

Provides an alphabetical list of addresses and labels to aid regional staff in correspondence preparation and mailing of bulk material.

The Region 6 staff uses the information in its correspondence preparation and mailing. Currently not in use because of lack of data.

User provides the Technical and Administrative Data Support Branch (TADS) with a corrected version of a previous addressee printout. TADS may update as well as retrieve from the file via keyboard or with access to a UCC 1035 may do the updating and retrieval. The file has been structured and tested, but no full-scale data has been input into the system. The program is written in COBOL and operates on IBM System 370/155 via UCC 1035 terminals. A minimum of 65,000 core has to be requested. The environment is keyboard, batch, on-line, using a medium-speed printer.

ES-10130 MAILING LABEL SYSTEM EPA Region 7, Kansas City OPERATIONAL 1972 AUTOMATED. Reed, Eloise, Information Specialist, Public Affairs Division; Webster, Daniel, Computer Specialist, Support Services Branch.

Enables the Public Affairs Division and program managers to disseminate large volumes of EPA information to the news media, general public, special interest groups, and state and local governments.

Produces one formal report or listing which is used in editing and updating information and for reference purposes by the Public Affairs Division and program managers. Main output of the system consists of mailing labels. Informational elements are the addressee's name, street address, city, state, zip code, and telephone number.

File was originally created with lists of addressees provided to data systems by the Public Affairs Division and program managers on specific groups concerning the public, news media, and government agencies. Each list is treated as a separate file by the system. Updates are made from the publisher's yearbook, the broadcaster's yearbook and notices from environmental groups and special-interest groups on address changes or information requests. Changes are keypunched and a new, updated listing is made. Mailing labels are printed on the IBM 1403 printer through an IBM 1130 serving as a remote terminal to the Boeing Time-Sharing system. System contains 500 records stored on disk in the Boeing system. System has two application programs written in FORTRAN and requires 4,000 bytes for operation. **System Revised May 1972**

ES-10140 MAILING LIST EPA Region 8, Denver OPERATIONAL 1971 AUTOMATED. Fitch, Russell W., Office of Research & Monitoring Senior Representative; Entzminger, Thomas A., Chief, Computer Systems Branch.

Facilitates distribution of technical information to keep Industry, State and Local Governments aware of current technology processes as provided by the EPA Headquarters Technology Transfer Office.

A file of users with their name, affiliation and address is maintained and used to produce mailing labels. There is not a selective dissemination of material.

Input into this system comes from industries holding pollution permits, and from the Public Relations Section. There are no codes for interest nor periodic purging of the file. These are two application programs in COBOL utilizing 5,000 bytes of core on Boeing Computer Services IBM System 370/155 and a DATA 100 in Denver. At present there are about 500 records on file.

ES-10148 MAILING LABEL SYSTEM EPA Region 9, San Francisco OPERATIONAL 1972 AUTOMATED. Doss, Mary, Chief, Correspondence Pool Section; Thompson, James E., Chief, Management Systems Branch.

Facilitates the distribution of correspondence, documents and public information literature to predesignated organizations and individuals.

A listing of organizations and individuals by category is distributed periodically to the sponsoring division for review and update. Upon request, a selected list of mailing labels can be printed along with a listing to facilitate the mailing process.

Inputs to the system are generated by informal memorandums and corrections made to the listings circulated for update. The data is keyed directly from these documents into the Bowne Time Sharing using WORD ONE. The current file is updated after edit and validation. The system, using WORD ONE, operates on the Bowne Time Sharing IBM 360/50.

ES-10156 MAILING LABEL SYSTEM EPA Region 10, Seattle OPERATIONAL 1970 AUTOMATED. Feigner, Kenneth D., Supervisor, Data Systems Branch; Reyes, Francis J., Computer Technician, Data Systems Branch.

Aids program managers in disseminating information to interested environmental groups and individuals.

No formal reports are produced by the system. Output consists of two types of mailing labels: one for use on unfranked envelopes, and one for use on standard letter-sized envelopes. Informational elements of the system are name of the addressee, street address, city, state, and zip code. System

contains four subfiles each covering a different program area.

All records are stored on punched cards by state and by alphabetical listing of addresses' names. The four subfiles contain about 1,000 records of 20 characters(1) technology transfer-consultants, engineering firms, and municipality mayors, (2) EPA offices throughout the country used--by Personnel and Financial Management Branches, (3) oil and hazardous material spills--organizations and individuals and (4) grants administration--organizations and individuals. A new record is created when a routing and transmittal slip is received from a program manager for a new addressee. Information is keypunched directly from the slip and manually edited and stored. Lists of new addressees are submitted for keypunching on code sheets. Updates are received from a routing slip and a new card is punched to replace the old. Records are purged from the system upon return of mail and notification of program managers. Labels are produced off-line on the IBM 2780.

ES-10157 SPECIAL INTEREST GROUP FILE EPA Region 10, Seattle OPERATIONAL 1972 MANUAL. Johnson, Lee F., Public Affairs Specialist, Public Affairs Division.

Enables the Public Affairs Division to disseminate information to special-interest groups and individuals throughout Region 10 by maintaining a list on cards of all such identified groups. As a reference, the system also helps program managers to determine potential sources of citizen feedback in the impact of any particular new or contemplated program.

No formal reports are producted. Output is a ready reference for use by the Public Affairs Division and Program Managers. It provides information to automated systems for producing mailing labels. The system includes the contact name; organization name, address and telephone number, and area of interest; state code; and remarks on the date and how the group was initially identified.

A record is created each time the Public Affairs Division receives a request for EPA publications and notices of specific environmental issues. Each record consists of an unformatted card upon which all information is recorded. Updates are made regarding change of address and change of interest as notifications are received. Records are purged from the system upon two notices of nondelivery of mail. The system now contains 800 records filed by state and area of interest.

ES-10158 NEWS MEDIA FILE EPA Region 10, Seattle OPERATIONAL 1972 MANUAL. Johnson, Lee F., Public Affairs Specialist, Public Affairs Division.

Aids the Public Affairs Division in disseminating information to all news media in Region 10 by maintaining a current listing of the names and addresses of all newspapers, magazines, and television and radio stations.

No formal reports are produced. Output is a printed address on an envelope. The system includes the names and addresses of all types of news media in Region 10 and codes for the type of media, and, if a newspaper, whether it is a daily or a weekly. Location is indicated by the zip code.

The system is operated by the General Services Administration for all government agencies in Region 10. A record (name and address of news media) is created for each news media publication or station as listed in the Broadcasting Yearbook and in the Editor and Publisher Yearbook. These publications are also consulted when the files are updated every 2 years. Address changes are made as notified. Records are terminated when notices of nondelivery of mail are received. The system contains about 450 records each averaging about 75 characters in length. Plates are used for printing. A limited sort capability exists for location and type of media or a combination thereof.

ES-10171 COMPUMETER NERC, Cincinnati OPERATIONAL 1972 AUTOMATED. Nims, E. J., Chief, Computer Operations Branch.

Aids the Computer and Operations Branch in managing computer facilities and personnel. System is used for evaluation of computer utilization, work scheduling, requirement determination, and budgeting.

System produces periodic reports describing computer usage by jobs and by departments in terms of time and money. Computer Services Branch Chief and the Director of the Management Division analyse the reports for use in budgeting, work scheduling and equipment procurement.

The information is generated by the computer's operating system. Report generation is accomplished under the control of the system's supervisor program. System uses 25 application programs written in COBOL and operates on an IBM System 360/30 with a minimum core requirement of 64,000 bytes.

ES-10172 ADDRESS LABELING SYSTEM (ADDLAB) NERC, Cincinnati OPERATIONAL 1969 AUTOMATED. Kent, George W., Chief, Water Quality Registration Branch.

Aids in disseminating information to the public/organizations interested in water quality control by preparing mailing labels.

System produces printouts listing addresses and telephone numbers of individuals and organizations whose common interest is water quality control information. System can produce lists of addresses by kinds of interest, type of institutions etc., for specific groups. The local NERC staff utilizes the list for information dissemination.

Lists of address changes are provided informally to the computer section; this informal transmission consists of coding sheets. New cards are punched to introduce new data or update old listings. A merge of the current file with the update file is effected in order to make the necessary additions, changes or deletions. Consisting of nine applications programs written in IBS, the system operates on an IBM System 360/30.

ES-10174 LABEL AND REASON VECTOR NERC, Cincinnati OPERATIONAL 1964 AUTOMATED. Benoit, W. J., Director, Administration Division; Adler, M., Staff Programmer, Computer Operations Branch.

Aids technological transfer by providing an automated base of information concerning the water quality community and water quality research. The system prepares address labels for mailing of bulk reading material, and maintains a file of addresses and their characteristics.

One report is published providing the reason for selecting certain agencies, an analysis of their interest and publications desires in addition to name and address.

Data is submitted on unstructured forms for keypunching. The only processing feature is the sorting of addresses. The environment is batch and a FORTRAN program is used. The file contains 7,000 records of 1,900 bytes each; core requirement for any of the three programs is 500 bytes. System uses an IBM System 360/30.

ES-10195 COMPUTER UTILIZATION (NCMUSE) NERC, Las Vegas OPERATIONAL 1970 AUTOMATED. Snelling, Robert M., Chief, Data Acquisition and Analysis Branch.

Distributes the cost of computer utilization by individual fund within the NERC. Maintains an accounting by application, fund and cost of the laboratories' remote usage of the AEC's CDC 6400 computer.

A Computer Utilization Report is prepared monthly for use by the Fiscal Department of the NERC, Las Vegas. The report gives the total cost, by individual funds, of their remote computer usage. It is used to charge each fund and to prepare payment to the AEC, Las Vegas.

Each Week a Detailed Job Cost Report of the NERC's usage of the AEC's CDC 6400 computer is received. The report is analyzed for accuracy by the Data Acquisition and Analysis Branch and selected items are transferred to a Computer Utilization Coding Record for keypunching. After machine-editing and validation, the inputs are summarized monthly by fund and the Computer Utilization Report is prepared. The content of this report is total cost by individual fund. Several sorts are available to distribute machine usage by CPU time utilized by fund, number of jobs run by fund, types of runs, and production or development. All are used to analyze internal utilization. The system consists of one application program written in

FORTRAN and operated on AEC's CDC 6400 computer with a minimum core requirement of 12,000 words.

ES-10196 MAILING LABEL SYSTEM NERC, Las Vegas DEVELOPMENTAL 1972 AUTOMATED. Douglas, Geneva, Director, Office of Information; Allison, George C., Systems Analyst, Data Acquisition and Analysis Branch.

Aids the Office of PUblic Affairs in disseminating environmental information in the form of news releases, publications, announcements, notices, newsletters, etc., by maintaining a list of addresses and categories of groups and of their interest. Output is in the form of lists or mailing labels produced by category on demand.

Lists of users and mailing labels are produced by category upon request.

A mailing list coding form is submitted by each office for the file of users to be maintained. The forms are key punched and listed for verification before input to the system. Modifications to the file are submitted in the same manner. Any subset of addresses may be retrieved upon request and mailing labels are printed. The system consists of two COBOL programs on the AEC's CDC 6400 computer. Minimum core required is 20,000 words. **System Revised May 1973**

ES-10212 ADDRESS LABELS NERC, Corvallis OPERATIONAL 1970 AUTOMATED. Hebert, G., Director, Administrative Services; Byram, K., Computer Systems Analyst, Consolidated Laboratory Services.

Aids NERC Corvallis in disseminating information by maintaining address lists in machine-readable form to facilitate automatic production of labels.

Printed report is used by NERC and NPWL staff to maintain currency of addresses. Gummed labels are used to address correspondence.

New records are created upon request by keypunching new addresses provided. Lists are updated periodically when change of address data is received. All data is stored on card. The system utilizes both the Boeing Computing Services IBM System 370/155 and a remote DATA 100. The programming is in FORTRAN. Minimum core requirements are 100,000 bytes and 1 application program is used. File consists of 2,000 records.

ES-10217 AUTOMATIC DATA PROCESSING EQUIPMENT UTILIZATION (ADPEU) EPA Lab, Ada, OK OPERATIONAL 1971 AUTOMATED. Kingery, J., Mathematical Statistician, Robert S. Kerr Water Research Center.

Aids in the managing of automatic data processing equipment and associated personnel.

System generates three reports. They cover utilization associated with three major categories: type of operation, operating personnel, and research programs requiring equipment. Major information elements contained in these reports are frequency of use, average run time, and percentage of total equipment used. The laboratory director and the program chiefs use these reports to evaluate equipment usage for resources management.

Each time equipment is used pertinent information is noted, placed on a coding sheet and keypunched. The cards are edited and placed sequentially in the systems disk storage for manipulation and report generation. Four application programs written in FORTRAN provide sort and report generation capability. The minimum core requirement for the largest program is 8,000 bytes. The size of the largest file is 1,000 records of 104 bytes each. The equipment used is an IBM 1130. **System Revised May 1973**

ES-10238 MANUFACTURERS' ADDRESS LIST EPA Headquarters OPERATIONAL 1968 MANUAL. Harzen, James H., Chief, Certification Branch.

Facilitates the dissemination of technical emission and standards information and general correspondence to automobile manufacturers by maintaining a current address list.

No reports are produced. The list contains the manufacturers' name and address, FTS access, and commercial telephone number. The Certification Branch, of MSPCP, utilizes this as a mailing list.

The contents are initiated, updated, and purged by telephone calls or letters from the manufacturer. There are 100 entries on the list.

ES-10258 MAILING LIST RETRIEVAL AND PRINTING SYSTEM EPA Region 3, Philadelphia OPERATIONAL 1969 AUTOMATED. Silverman, Mark, Director, Public Affairs Division; Bunce, Ronald, Chief, Data Processing Support Branch.

Automates the preparation of name and address labels and provides user option of rapid retrieval and printing address labels for envelope mail-out. Expedites transmission of priority public information communications.

Output is selected name and address label printed for envelope mailout. Used for transmission of EPA Region 3 public affairs publications.

Name and address cards are punched for new entries and put on disk. The user determines number of mail-out lists required for a production run and type of lists to be retrieved and printed on mailing labels. Major retrieved classes are normal, state, media, state and media, and zip code. Category codes include large cities, the Chesapeake Bay, capitals, the North Carolina coast, state delegates, city executives, newsletters, and miscellaneous. One program builds the file on disk, and a second program retrieves and prints selected labels. Consists of 2 FORTRAN application programs on an IBM 1130 with a minimum core of 2,000 words.

ES-10302 MICROFILM - MICROFICHE SYSTEM EPA Region 10, Seattle OPERATIONAL 1971 MANUAL. Reyes, Francis J., Computer Technican, Data Systems Branch.

Provides a working copy of all U.S. Geological Survey quadrangle maps in Region 10.

No formal reports are produced.

About 4,000 aperture cards containing both coded river indexed films, and non-coded river mileage, order of a stream, and its number are stored by state, by scale, and alphabetically by quadrangle name. An indexing system is provided by the U.S. Geological Survey which shows an entire state and its quadrangle. The working map copies produced by the cards are mainly used by water survey teams to locate and analyze water sampling stations. All maps are black and white. An Itek microfiche printer is used to make the working copies from the filmed maps.

ES-10311 COMPUTER PROGRAM INVENTORY (PROINV) NERC, Las Vegas OPERATIONAL 1970 MANUAL. Snelling, Robert N., Chief, Data Acquisition and Analysis Branch.

Sets minimum requirements for cataloging information on a computer program or a group of programs to facilitate maintenance, usage, and understanding of the program/programs.

Six documents are prepared for each program/programs written: a quick summary of the program/programs; a guide to the keypunching and handling of data before or after computer processing; the requirements for the computer processing of the data; a collection of information to assist in following program logic; details on how to use a program; description of the data processing system. The documentation is used by the Data Acquisition and Analysis Branch to review, update, and maintain programs, and to ensure quality control. A Documentation Index is also prepared from selected keywords-in-context and is used as an inventory and ready reference to programs available.

A set of instructions for completing each type of document is made available to the programmer/analyst. Upon completion of each system the documents are submitted for review and quality control by the programmer/analyst. Selected items from each document are keypunched and indexed using the Keyword-in-Context (KWIC) software package.

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ES-10016 EPA TECHNICAL PUBLICATIONS SYSTEM EPA Headquarters OPERATIONAL 1967 MANUAL. Kolbinsky, Robert R., Chief, Technical Publications Branch.

Publishes research reports, edits technical papers and journal articles for NERC Research Triangle Park, Office of Air Quality Planning and Standards and Office of Mobile Source Pollution Control Program, the Office of Research and Monitoring, and Office of Administration.

Three series of reports are issued: AP, contains air pollution technical information of general interest; APTD, air pollution technical data which is of limited interest; and EPAR, Office of Research and Monitoring reports on progress of research and development.

After a document or report is received, copies are forwarded to APTIC for abstracting and input to the APTIC system. As requested the Technical Publications Branch will edit reports and produce graphics for them. Composition and makeup for reports are performed in-house, but most work is subcontracted by the Government Printing Office. Distribution is performed from a mailing label procedure which includes keys for selected addressees. **System Revised May 1973

ES-10027 HAZARDOUS AIR POLLUTANTS ENFORCEMENT MANAGEMENT SYSTEM (HAPEMS) EPA Headquarters DEVELOPMENTAL 1972 AUTOMATED. Hedgepeth, Lloyd, Project Officer, Control Agency Procedures Branch; Bullock, Frank, Computer Systems Analyst, Management Information & Data Systems Div.

Registers hazardous pollutants and administers the enforcement of hazardous air pollutants emissions standards.

Nine reports are planned, which will be used by the Office of Enforcement and General Counsel, Regions, and Stationary Source Enforcement Division for compliance and enforcement. Reports will be outputted on monthly or as required basis, and are: Source Registration Reports; Overdue Action Reports; Future Schedule Summaries; Geographic Locators; Source Action Summaries; Agency Action Summaries; Action Cards; Edit and Update Reports; and Standardized Notices, Letters and Permits. Compliance information will be provided to NEDS.

Regions will receive data from states, and will also develop some data from their own sources. Master file will be created and updated by using punched cards from inspectors' reports. Inspectors will conduct field trips to insure compliance. Consists of 10 COBOL applications programs on IBM System 370/155 with minimum core of 40,000 bytes. **System Revised May 1973**

ES-10046 COMPREHENSIVE DATA HANDLING SYSTEM (CDHS) EPA Headquarters DEVELOPMENTAL 1972 AUTOMATED. Hedgepeth, Lloyd, Project Officer, Control Agency Procedures Branch.

Used by state and local air pollution control agencies to handle data and information from management, enforcement, engineering, and technical operations.

This system will provide state or local air pollution agencies the ability to produce reports on all phases of its operation for more effective management control. In the management operations functional area, 5 sub- systems are planned, providing reports on fiscal data, manpower, policy and plans, and grant applications. Similar types of reports are planned for enforcement, engineering operations, and technical operations.

Two data bases will be created. The source data file will include all pertinent data for each source needed by the subsystems in the four functional areas. The air quality and meterological data file will support air quality control activities in engineering and technical operations subsystems. This system will use data from the Enforcement Management System and the Air Quality Data Handling System. It will be developed at three levels: A completely manual system for small agencies, a moderately computerized level for intermediate size agencies, and an advanced computerized level for large agencies. Programming language is COBOL. **System Revised May 1973**

ES-10047 COMPLIANCE DATA SYSTEM (CDS) EPA Headquarters DEVELOPMENTAL 1972 AUTOMATED. Hedgepeth, Lloyd, Project Officer, Control Agency Procedures Branch; Bullock, Frank, Computer Systems Analyst, Management Information & Data Systems Div.

Will provide EPA with capability to capture, organize, summarize and monitor air pollution compliance data on five primary pollutants.

Regional and national reports summaries are produced on the following: compliance activities, source by source compliance activity reports; state, regional and national reports on compliance schedule milestone reports are also produced for updating NEDS and NADB (SAROAD); the semi-annual progress report "Turn Around" documents; the summaries of sources having achieved compliance; statistical breakdowns of compliance milestone programs; summaries of local compliance activities will be implemented in regional offices and headquarters enforcement.

COBOL programs are being written. **System Revised May 1973**

ES-10049 IMPORTED VEHICLE MONITORING SYSTEM EPA Headquarters OPERATIONAL 1973 AUTOMATED. Heglund, William, Chief, Import Section; Cohen, Victor, Computer Systems Analyst, Management Information & Data Sys Div.

Provides information to EPA enforcement officers to assist them in enforcing the import regulations. Gathers and presents statistics on automobile importation as management information.

The Imported Vehicle Monitoring System consists of a master file, several auxiliary files, a master file maintenance program and several output report generation programs. The master file contains a record for each vehicle or group of vehicles imported into the United States or its territories and includes information regarding vehicle make, model, model year, port of entry, date of entry, and importer name and address. Reports generated from this data base include summary statistics on vehicle importation versus port of entry, a summary of import cases requiring action and a listing of vehicles imported each week.

The master file is updated weekly on the basis of new declarations (EPA FORM 3520-1) recieved from U.S. Customs. The system became operational in March 1973 and anticipates a master file growth rate of 100,000 records per year. **System Revised May 1973**

ES-10052 NEDS VARIABLE DATA SUBSYSTEM (VDSS) EPA Headquarters DEVELOPMENTAL 1972 AUTOMATED. Hammerle, James R., Chief, National Air Data Branch.

Performs data management functions of definition, storage, maintenance, and retrieval of variable formatted fixed length records pertaining to point source related and pollutant emission.

System contains point source related data received from regions and states. File update reports are produced as part of the Dictionary file maintenance and variable file maintenance programs. The variable data reports will be generalized reports to provide basic data listings to headquarters, regions and state agencies.

Initial program is the file dictionary definition which creates a dictionary file describing the format of the variable data cards. Then the report of the dictionary file descriptions is run, to serve as a inventory report of the types of date defined for storage in the system. Next, the NEDS variable data file is created and maintained. Last step is the development of generalized data reports from the NEDS variable data file. Consists of 3 COBOL application programs on IBM System 360/50 with minimum core of 100,000 bytes. **System Revised May 1973**

ES-10054 DATA BASE OF NSPCP LABORATORY TEST RESULTS EPA Headquarters DEVELOPMENTAL 1973 AUTOMATED. Mobley, J. David, Manager, Computer Operations, Data Branch.

Supports mobile Source Pollution Control Program's certification and Emission standards development as set down by the Clean Air Act by maintaining a data base of NSPCP laboratory test results from 1969 to

present.

No reports will be produced by this developmental system. Summary data and statistical inquiries will be made on an as-needed basis. These will show vehicle and test identification data; emission results on HC, CO, CO2, NOX; evaporation; and test type Several branches of MSPCP will utilize this data base for certification, development, and historical comparisons.

Final test results will be input by punched card and the data base will be maintained on magnetic tape and disk. Ten application programs are planned and will run on the University of Michigan's IBM System 360/67 with an IBM System 360/20 at MSPCP, Ann Arbor, Michigan. **System Revised May 1973**

ES-10055 STORAGE AND RETRIEVAL OF AEROMETRIC DATA (SAROAD) EPA Headquarters OPERATIONAL 1970 AUTOMATED. Hammerle, James , Chief, National Air Data Branch; Mehls, Jerry, Chief, Data Management Section.

Collects nationwide information on air quality, evaluates state compliance with national standards, and determines the need for modifying compliance plans. It is used as a source for establishing compliance criteria. A trend analysis of areas is made to detect changes in air quality levels and to determine causes.

An air quality standards report is prepared quarterly to satisfy federal register requirements. Used for enforcement, it includes daily and hourly pollutant running averages, and annual averages. An inventory of data by site constitutes a quarterly report which is used by regional offices for analysis. An annual frequency distribution of pollutants by site is a report used by state and local agencies for air quality data reports. Other reports are: site description and yearly report of pollutants by site and quarter. A national aerometric data bank is the data base operated on by SAROAD system software.

Data arrives in SAROAD format on paper forms, punched cards, or mag. tape. Manual screening and computer edit validates the data. The data is rejected if it is erroneous, suspicious, or if it does not include environment of sampling site and method of sampling and analysis. The master data file and summary files are updated on a weekly basis. Summary files contain records of monthly, quarterly, and annual information as well as quarterly and annual frequencies. Summaries are returned to contributing agencies. The data file is examined annually. If at least one quarter per year is not representative, data is purged from the system. Before constructing a statistic for a time interval, unrepresentative data for a time period are eliminated. The system consists of 50 PL/1 and Mark IV application programs on an IBM System 360/50 with a minimum core requirement of 200,000 bytes. **System Revised May 1973**

ES-10056 NATIONAL EMISSIONS DATA SYSTEM (NEDS) EPA Headquarters DEVELOPMENTAL 1971 AUTOMATED. Hammerle, James R., Chief, National Air Data Branch; Mehls, Jerry, Chief, Data Management Section.

Aids in measuring the sources of air pollution by maintaining, retrieving and analyzing National Air Pollution Source and Emissions Data.

National inventory report shows emissions data by source classification code for counties, states, air quality control regions, and EPA regions. Report will differentiate area and point source emissions giving subtotals for each, based on major Source Classification Code (SCC) categories. Point source report lists point source and emissions data. Area source and emissions data is used to produce the area source report. All three reports are used by EPA headquarters, regional offices and state agencies for planning and control of air pollution.

This system accepts screened cards to detect incomplete sets of data for point sources or errors in inputs. Master file is updated and emissions are computed from type of Standard Industrial Classification Code (SICC) process furnished through input, and a standard table of factors for these processes. Retrieval information file is produced, master file is organized by state and county, user file contains all master file data plus calculated emissions values. NEDS master file is produced from area/point source data inputs, and is then used together with the SCC/Factor file to produce NEDS user emission file on disk. NEDS identification files on disk are produced by merging geographic identification files and SCC/Factor file. Two disk files are then used to produce three major output reports. Consists of 20 COBOL applications programs on IBM System 360/50 with minimum core of 150,000 bytes. **System Revised May 1973**

ES-10057 AIR QUALITY DATA HANDLING SYSTEM (AQDHS) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Hedgepeth, Lloyd, Project Officer, Control Agency Procedures Branch; Hersch, Jerome B., Chief, Data Services Section.

Provides state and local air pollution control agencies with the capability of storing, processing and retrieving air quality and meteorological data, utilizing SAROAD standard format.

Several reports are output from the system. The air quality data listing is a monthly report used by local agencies for planning and editing. It lists for example the amount of sulfur dioxide pollution by hour for a specific day at a particular city. Statistical analysis reports are issued monthly by local agencies which analyse various air pollution data.

State and local agencies create, maintain, and update their own air quality data file. One of the outputs of the system is a magnetic tape which is created in SAROAD format for submittal to National Aerometric Data Bank. Consists of 5 COBOL and FORTRAN applications programs on IBM System 360/50 with minimum core of 140,000 bytes. **System Revised May 1973**

ES-10058 AIR QUALITY IMPLEMENTATION PLANNING PROGRAM (IPP) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Hersch, Jerome B., Chief, Computation Section.

Assists state governments in preparing air pollution implementation plans for sulphur oxides and particulates. Computer simulation is used to select appropriate emission standards, evaluate the resulting air quality and determine the costs associated with the various alternative control strategies.

Five major reports are produced by the Implementation Planning Program, which are used by control strategies personnel for recommending effective air pollution control actions. The reports are: 1. Source File Listing - used to select appropriate emission standards; 2. Diffusion Model Analysis Report - used to estimate spatial distribution to sulfur dioxide and particulate matter concentrations throughout an air quality control region; 3. Source Contribution Report - used to estimate the contribution from each source to each pollutant receptor defined within the region; 4. Control Strategy Report - used to apply a specified control strategy so that the least cost control technology that satisfies the appropriate emission standard is applied to each source and 5. Control Cost Report - used to determine estimates of total annual cost and efficiency of pollutant removal for each application of alternative control devices available to each point source.

The initial processing step is the creation and maintenance of the various impact files. The air quality simulation is performed in the air pollutant concentration segment, which produces a contribution file. The control Cost Segment is then run, resulting in the control cost file update. Finally, in the Control Strategies Segment, the emission standards program is supplied, leading to the first result in the regional strategies program. Consists of 8 COBOL and FORTRAN applications programs on the IBM System 360/50 with a required minimum core of 200,000 bytes. **system Revised May 1973**

ES-10059 FEDERAL POWER COMMISSION TAPE (FPC) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Hersch, Jerome B., Chief, Computation Section.

Monitors and measures air pollution caused by electric power plants in the US by extracting relevant data from the Federal Power Commission data bases.

Reports are varied and produced on request for Stationary Source Pollution Control Program offices. Reports include NEDS input, fuel analysis, cost analysis, and control systems analysis.

Data is selectively extracted from FPC furnished tapes containing FPC form 67 power plant data according to code keys. The data is formatted and

stored in NEDS. Various analyses are performed on the data and reports created which contain results of analysis. Consists of 5 Cobol/Fortran applications programs on IBM System 360/50, with minimum core of 180,000 bytes. **System Revised May 1973**

ES-10060 AIR POLLUTION TECHNICAL INFORMATION CENTER SYSTEM (APTIC) EPA Headquarters OPERATIONAL 1966 AUTOMATED. Halpin, Peter, Chief, Air Pollution Technical Information Center; Knight, John E., Technical Information Specialist, APTIC.

Aids technology transfer by collecting and disseminating domestic and foreign technical information on air quality and air pollution prevention and control. Also renders technical assistance to air pollution control agencies and other public or private organizations and individuals.

Prepares monthly Air Pollution Abstracts by formatting tapes for the Government Printing Office's Linotron, and electronic photocomposition device that makes photonegatives for printing bulletins to sent to 2,000 recipients. In addition, cumulative subject and author indexes are produced semiannually. Specialized bibliographies also are produced about five times a year, which are printed and sold by the Governemnt Printing Office. In addition, the system performs 2,400 retrospective literature searches, and 600 SDI searches a year from a growing file of more than 48,000 technical documents.

Documents are selected for input according to recurrently updated criteria specified by system users. Unclassified governement and many industrial research reports, plus 7,000 domestic and foreign journals are regularly screened. Information is keyboarded on MTST tapes which are converted to nine-track computer tape using Digi Data System 30, then are computer-edited and corrected, and entered onto permanent disk storage. Full-text hard copies and microfiche also are accessible. Analysts index specific des- criptors, averaging 30 in-depth terms per document. Combined File Search program provides search capability. Consists of 80 ASSEMBLY application programs on IBM System 360/50 with minimum core of 150,000 bytes for updates and 100,000 bytes for searches. Several COBOL programs have been written to edit and format materials for GPO. **System Revised May 1973**

ES-10061 ENFORCEMENT MANAGEMENT SYSTEM (EMS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Hedgepeth, Lloyd, Project Officer, Control Agency Procedures Branch.

EMS is used by state and local air pollution control agencies for handling enforcement activity and information. Gives agency means to track, monitor, schedule and report enforcement activities.

System outputs are: (1) letters, permits, certificates, standard formats output by system to sources; (2) geographic locator of pollutant sources, output by UTM coordinates and by city and street address in alphabetic order; (3) overdue action report, notice of an overdue action previously scheduled; (4) future schedule, actions schedule; (5) action summary, summary of past agency actions; (6) source action summary, agency actions by source.

Action cards are completed by state and local agency personnel and are put on computer tape which is used to update the data base and to ultimately produce output. Information is extracted from the master file, sorted and printed. EMS provides an organized methodology to control enforcement activities. It produces a variety of reports and summaries to meet the needs of various staff agencies. It provides greatly improved access to information which has been gathered over a period of time, so it is available quickly for a number of purposes. Consists of 4 COBOL applications programs. Has been run on IBM System 360/40, 360/50, 370/155 and UNIVAC 1108. Minimum core required is 40,000 bytes. **System Revised May 1973**

ES-10063 ALL MAJOR IN-HOUSE AND CONTRACTED PROJECT DATA EPA Headquarters OPERATIONAL 1969 AUTOMATED. Mobley, J. David, Manager, Computer Operations, Data Branch.

Supports Mobile Air Pollution Control programs by performing data reduction and analysis on current projects and provides a historical data base for future reference and manipulation.

No reports are produced by the system. Statistical outputs by computer printer or plotter that are unique to each project and request for manipulation are produced by the system. The data base in general maintains emission results, HC, CO, CO2, NOX, evaporation emission, and vehicle and engine descriptions. The Emission Control Technology Division and the Certification and Surveillance Division utilize the data for mission and research responses.

All major in-house and contracted project data of the MSPCP are entered into the system. It contains one operational program per project to give raw data meaningful results and approximately 25 manipulation programs. It utilizes 83,000 bytes of core on the University of Michigan's IBM System 360/67 with an IBM System 360/20 at Ann Arbor. There are about 5,000 108-character records on the magnetic tape master file. **System Revised May 1973**

ES-10064 MANUFACTURER VS EPA VEHICLE TESTING RESULTS EPA Headquarters OPERATIONAL 1971 AUTOMATED. Hendon, John D., Computer Programmer, Data Branch.

Compares manufacturer and EPA testing results.

Manufacturer data and EPA certification data report is produced by the system monthly. It shows the manufacturer's and EPA's emission testing results of HC, CO, evaporation and NOX at certain mileages along with means and standard deviations for each type of emission. The Laboratory, Certification, Testing and Evaluation Branches utilize this system to maintain quality control on manufacturer's laboratory testing.

Vehicles are sent to EPA-MSPCP, Ann Arbor, Michigan, with the manufacturers test results. EPA tests each vehicle and both sets of data are then recorded. No master file is maintained, only one time calculations performed. There is one application program utilizing 10,000 bytes of core on the University of Michigan's IBM System 360/67 with an IBM System 360/20 at MSPCP, Ann Arbor, Michigan. **System Revised May 1973**

ES-10176 DATA ACQUISITION SYSTEM (TAME) NERC, Cincinnati OPERATIONAL 1972 AUTOMATED. Iltis, Rumult, Electronic Engineer, Inhalation Toxicology Program; Nime, E. J., Chief, Computer Operations Branch.

Aids in determining the aerometry data (in exposure chambers) i.e., levels of measured pollutants (gases) generated by auto exhaust.

System produces no formal reports. Main output consists of computer listings of the results of statistical analysis such as mean levels, standard deviation, percentiles, minima and mixima. These data are used by analysis in the Inhalation Toxicology Program to determine the relationship between the biological effects and exposure to fuel and/or fuel additive emission. Major informational elements included in the sytem are type of gas or exhaust, laboratory chamber number, irradiation treatment, and pollutant level in parts per million.

Sensors monitor each measured pollutant. Recordings are converted into punched tape which in turn are converted to punched cards. These cards serve as input to an IBM System 360/30 for statistical analysis. Cards are retained for future investigation. **System Revised May 1973**

ES-10185 USERS NETWORK FOR APPLIED MODELING OF AIR POLLUTION (UNAMAP) NERC, Durham DEVELOPMENTAL 1973 AUTOMATED. Ruff, Ronald E., Electronic Engineer, Model Development Branch.

Will provide the capability to access a network of air pollution models and associated meteorological and emission data bases in order to determine effectiveness of controls and administer changes as required.

A series of models used to determine the effects on air quality of certain control actions will be made available via a remote terminal network to States, the Regions, and other qualified users. Some of the models currently planned for the user's network are Climatological Dispersion Model (CDM) and SRI's Urban Diffusion Model, also known as APRAC - 1A. Other models as they are developed will be added to the network. An inventory of the models with their capabilities, and types of data bases will be made

available so users may decide which model and data base will satisfy his requirement. Once on-line via a remote terminal to the network, the user will select his model, data base, and test his control strategies.

The network is presently under development with no hardware or software information available at this time.

ES-10186 COMMUNITY HEALTH ENVIRONMENTAL SURVEILLANCE SYSTEM (CHESS) NERC, Durham OPERATIONAL 1970 AUTOMATED. Lowrimore, Gene, Chief, Data Processing Section.

Aids in determining air quality standards by providing information on the effects of specific air pollutants on human health.

Output reports specify health effects observed on existing pollutant exposure dosages. Demographic information such as age, sex, length of residence, occupational history, smoking history, and education are included in the reports. In addition, personal health information such as chronic respiratory disease prevalence, actual lower respiratory disease incidence in children, asthmatic attacks, and aggravation of chronic symptoms by specific pollutants is included. Output reports include aerometric summaries, acute respiratory disease, acute episode summaries, and statistical analyses of the effects of pollutants on selected human diseases.

Input data includes aerometric data, air research data surveys, and results of epidemiological research studies. Two major files are maintained: Aerometic monitoring data and responses to health questionaires. The system consists of 240 COBOL, FORTRAN, and PL/1 application programs that are run on an IBM System 360/50 with a minimum core requirement of 300,000 bytes. **System Revised May 1973**

ES-10239 INDUSTRY STUDY EPA Headquarters OPERATIONAL 1971 MANUAL. Cuffe, S.T., Chief, Industrial Studies Branch.

Provides support for new emission source performance standards, hazardous pollutant standards, recommend research and development, specify plant inspection and episode procedures.

Interim and final reports, and industry studies are produced to provide analysis and planning capability to major divisions of the Stationary Source Pollution Control Program. Interim reports support new source performance standards. Final reports support system objectives.

Industry data from firms, universities, federal and state departments, and trade associations is collected by Industrial Studies Branch, Applied Technology Division which performs research and analysis and produces one time studies of each industry. Studies contain interpretations and recommendations on air pollution control for customer branches of EPA.

ES-10240 PRIMARY TEST DATA EPA Headquarters OPERATIONAL 1967 MANUAL. Hendon, John D., Computer Programmer, Data Branch.

Aids mobile source pollution control programs by maintaining a file of all certified and experimental test data from which to make comparisons and/or historical reference.

No reports are produced. A file folder is created for each test containing EPA constant-volume sampler (CVS) results, CVS data sheet, a vehicle test data entry sheet, analyzer charts for HC, CO, CO2, NOX and drivers trace (Federal Driving Schedule). The Laboratory Branch, the Certification Branch, and the Testing and Evaluation Branch may use this file to answer test inquires.

Test results are input from the laboratory for preliminary processing. The analysis is returned to the requestor and manufacturer. A final folder is assembled with various intput sheets, charts, and final test results. The file contains approximately 5,000 folders. **System Revised May 1973**

ES-10309 FUEL ADDITIVE REGISTRATION SYSTEM (FARS) NERC, Durham OPERATIONAL 1970 MANUAL. Miller, Henry C., Chief, Office of Fuel and Fuel Additive Registration.

Provides a source of information to aid EPA air pollution research on all fuel additives and their usage registered with the Federal Government in compliance with a 1970 federal regulation.

A Fuel Additives Registered list is prepared periodically giving the registered name of the additive and the manufacturer.

Each manufacturer of fuel additives files an EPA Form 46A, and each user of additives files an EPA Form 47A with the Office of Fuel and Fuel Additive Registration , NERC, Durham. The Form 47A is updated semi-annually. The files created by these forms are available to EPA Air Pollution organizations for research purposes. **System Revised May 1973**

202 NOISE

ES-10026 NOISE INFORMATION SERVICE (NOISE) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Bach, David C., Program Assistant, Office of Noise Abatement and Control; Hall, Marguerite L., Computer Specialist, Management Information & Data Systems Div.

Aids noise abatement and research by disseminating abstracts and relevant information on noise technical documents to government agencies, private firms, and the general public to hasten technology transfer.

No formal reports are produced. Output is information retrieved by EPA regions, NERCs, laboratories, and the Office of Noise Abatement and Control via remote terminal. Major information elements included in the system are author's name and address, English and foreign publication title, corporate source, index terms, source document identification, and abstract.

Foreign and domestic noise literature is being collected, evaluated, and selected for system entry by Informatics Inc., under contract to the Office of Noise Abatement and Control. Abstracts are written and are manually edited; keyed on an MTST; and inputted into the Comnet Time Sharing system. The current file contains over 1,000 citations and is expected to increase by 250 citations per month. A machine edit capability is used to check reasonableness and field length with the STIMS/RECON software package, which is written in ASSEMBLY. All abstracts are indexed in detail so that a fine level of query can be specified. System will also incorporate an on-line thesaurus to aid querying. No specialized application programs have been written for the system as all searches and retrievals rely on STIMS/RECON software. System requires 186,000 bytes of core for operation on an IBM System 360/65/50. This system is part of the ENVIRONS System. **Systerm Revised May 1973**

203 PESTICIDES

ES-10028 PESTICIDES REGISTRATION SYSTEM EPA Headquarters OPERATIONAL 1964 AUTOMATED. Chock, Alvin K., Chief, Applications/Records Control Branch.

Stores and retrieves registration data controls on distribution of pesticide poisons. Will be merged into the PARCS (Pesticide Analysis Retrieval and Control System).

Master file print is issued monthly for reference by Applications/Records Control Branch. The update listing issued twice a month is used by Applications/Records Control Branch for reference.

Descriptive labels containing chemical ingredients of a formula and its approved practices for usage is received from manufacturer and reviewed. Transition sheet for coded information is completed, and paper tape punched for input. Data is added to master file residing on an IBM System 370/165 computer. Periodically listings of recent registration actions are produced and distributed to branches and regions. Consists of 10 COBOL programs on IBM System 370/165 with minimum core of 65,000 BYTES. **System Revised

May 1973**

ES-10039 REGISTRATION RECORDS (NONE) EPA Headquarters OPERATIONAL 1947 MANUAL. Chock, Alvin K, Acting Chief, Registration Division.

Complete record of registration submissions and actions. Includes confidential information (trade secrets). Source documents for all other pesticides registration information systems.

No formal reports are produced. Output consists of letter reply by the Registration Division to the applicant. This reply either accepts or rejects the application for pesticides registration. Information found on pesticides label or labeling is coded for the Pesticides Registration System. Product name(s) accepted provide for input in the Product Name Index. Information contained on labeling is reviewed by the Technical Services Division and summarized for inclusion in the EPA Compendium of Registered Pesticides.

Receipt of application. Attaching application to registration record. Processing of registration application. Routing of registration record for review. Scientific review by applicable discipline, and coding. Administrative review and preparation of letter reply. Letter reply mailed to applicant. Coded information transcribed to data processing files. Registration record returned to manual files. **System Revised May 1973**

ES-10082 EPISODE REPORTING AND ACCIDENT INVESTIGATION SYSTEM EPA Headquarters DEVELOPMENTAL 1973 AUTOMATED. Grandpierre, E.L.J., Director, Office of Program Development; Fry, Elgin, Computer Systems Analyst, Management Information & Data Systems Div.

Will provide the public and government agencies with information on pesticides episodes involving human, animal and environmental injury.

Reports will be used to exercise system management control, for studies, and to inform the public during an episode. One report will identify pesticide chemicals involved by region. Another report will list episodes involving human, animals and plants by region. Investigators report will be entered into the system and followed up.

Input will be received through regional pesticide reports, and significant data extracted and entered into the system by punched cards. Through inputs received from other systems such as STORET, Community Studies Project and PARCS, the background and impact of a pesticides episode will be reported, together with significant facts from the investigation. The system will interface directly with the Pesticides Analysis, Retrieval and Control System. Scheduled for operation in 1973, the systems will consist of 6 applications programs.

ES-10083 PESTICIDES ANALYSIS RETRIEVAL AND CONTROL SYSTEM (PARCS) EPA Headquarters DEVELOPMENTAL 1973 AUTOMATED. Fry, Elgin, Computer Systems Analyst, Management Information & Data Systems Div.

Centralizes information on pesticides to coordinate nationwide enforcement and analysis.

System will combine Beltsville Systems to produce pesticides use data issued annually. Report will provide general public and manufacturers with data on proper use, toxicity, and ingredients of pesticides.

Manufacturer submits application to register pesticide. Analysis is performed on ingredients. If approved, pesticide data will enter system. Application is renewed every four years, and granted if analysis proves pesticide is within tolerances. All pesticides must be registered including those made and sold within a state. The Pesticides Analysis, Retrieval and Control System operates on an IBM 370/155 and receives additional input from the Soil Monitoring, Accident Accident Investigation and Community Studies systems. COBOL programs are being written to operate on an IBM System 370/155.

ES-10207 PESTICIDE AIR MONITORING DATA SYSTEM EPA Lab, Chamblee, GA OPERATIONAL 1972 AUTOMATED. Evans, Burton R., Director, Division of Epidemiology; Caras, Gus J., Chief, Data Management Section.

Serves as a warning system for pesticide residue in the air of various localities of the U.S. Information provides a basis for corrective action, and for research devising new methods of minimizing pesticide content of the atmosphere.

Laboratory Residue Findings, a periodic report, describes the pesticide content in the air in terms of the specific kind of pesticide identified and the number of samples collected, mean volume of samples, etc., by site, station, county, and state. These specifics are forwarded to NERC, Durham, NC for monitoring and to the states concerned for corrective action.

Samples are collected by instrumentation at various sites and manually recorded on DPCS-3, which is transmitted to the Chamblee field site. Data is coded, keypunched, edited, transmitted to the Durham NERC computer via terminals to produce the various reports. Twenty application programs are written in MARK IV on an IBM System 360/50 with a minimum core requirement of 100,000 bytes. **System Revised May 1973**

ES-10208 PESTICIDE HUMAN MONITORING DATA SYSTEM EPA Laboratory, Chamblee, GA OPERATIONAL 1970 AUTOMATED. Evans, Burton R., Director, Division of Epidemiology; Caras, Gus J., Chief, Data Management Section.

Reports the levels of pesticide residues found in human tissue of the general population throughout the U.S. This information serves as a reference for corrective action and for the design of improved methods of dispensing/controlling pesticides.

The laboratory findings of Pesticides Residues, produced periodically, describes the amounts of pesticide residues found in human tissues. The information is broken down by hospital, state, EPA Region, clinical diagnosis, type of specimen, race, sex, age, interval, etc. The EPA, the hospitals, and the states use this data to monitor, control, and correct situations where excessive pesticide seems indicated.

Data are collected at hospitals throughout the U.S. and sent to the Chamblee Lab for coding, keypunching, and inputing into the Human Monitoring Data Base resident at the NERC, Durham, computer complex. The processing and report generation are performed at Chamblee via terminals (DATA 100). Consisting of 25 application programs written in MARK IV, the system operates on an IBM System 360/50 with a minimum core requirement of 200,000 bytes.

ES-10209 PESTICIDE COMMUNITY STUDIES DATA SYSTEM EPA Lab, Chamblee, GA OPERATIONAL 1972 AUTOMATED. Evans, Burton R., Director, Division of Epidemiology; Caras, Gus J., Chief, Data Management Section.

Aids research on the health effects of pesticide products by providing a comprehensive data base on health statistics of persons exposed to various pesticides.

System output consists of tables containing all the findings on pesticide effects according to various categories and strata of population; i.e., by age, occupation, location, sex, exposure times, degree of exposure, type of safeguards used in handling pesticides.

Data is collected manually at 14 project stations in selected areas of the U.S. and transmitted to the Chamblee Field Site for computer processing. Transmission takes three different forms: by mail, by terminals (from those stations that are so equipped), and by magnetic tape. These inputs are edited at Chamblee. Valid data is introduced into the data base which is updated by Chamblee using the DATA 100 to communicate with the NERC, Durham, IBM System 360/50. The system consists of 40 application programs written in MARK IV and has a minimum core requirement of 300,000 bytes.

ES-10219 DATA ACQUISITION AND PROCESSING FOR AGRICULTURAL RUNOFF RESEARCH EPA Lab, Athens, GA OPERATIONAL 1972 AUTOMATED. Bailey, G. W., Chemist, Industrial and Agricultural Pollution Control Research Program; Cline, D. M., Electronics Engineer, Southeast Water Laboratory.

Aids research on environmental effects of pesticides by providing basic data on soil and climatic conditions with associated levels of pesticides.

No formal reports are produced. Output consists of basic data which is used by laboratory researchers analyzing pesticide attenuation.

Data is acquired via sensors, scaled, and converted to engineering units. It is stored on magnetic tape for retrieval.

ES-10222 NATIONAL SOILS MONITORING SYSTEM EPA Headquarters OPERATIONAL 1971 AUTOMATED. Wiersma, G. Bruce, Head, Monitoring Section; Deer, Ronald, Systems Analyst, Management Information & Data Systems Div.

Aids in determining the effects of pesticides on the environment by maintaining a statistical data base on pesticide levels in soil.

Five major reports are output on an annual and on request basis for use by the Ecological Monitoring Branch. These reports are: cropping and field use record report; laboratory analysis report; probit analyses; cropping region analyses; and crop pattern analyses. The reports are use to analyse pesticide use patterns, trends, regulatory programs effectiveness, statistical distribution of pesticide residues in soil, and pesticide residues in soils and crops.

Input data is formatted on cropping and pesticide use record, sample data sheet, and analysis work sheet. Forms are keypunched and input to the system for processing. The system consists of 13 COBOL and FORTRAN application programs on an IBM System 370/165 with a minimum core requirement of 100,000 bytes. **System Revised May 1973**

ES-10232 PESTICIDE IMPORT FILE EPA Headquarters OPERATIONAL 1967 MANUAL. Neylan, John J., Program Specialist, Pesticides Enforcement Division.

Maintains information on pesticide imports to support enforcement actions and to provide information to general public, and chemical analysis labs.

Reports list all pertinent information on imported pesticides required to implement enforcement action if chemical analysis indicates unacceptable degree of toxicity. Information is searched to respond to requests from chemical laboratories and the public.

Bureau of Customs completes a form for each pesticide shipment into the country. The form is forwarded to EPA Regional Office, and copies forwarded from the Region to Headquarters Pesticides Enforcement Division, where they are filed.

ES-10249 PESTICIDE SAMPLING INFORMATION SYSTEM Region 1, Boston OPERATIONAL 1968 MANUAL. Colamaria, S. T., Chief, Pesticide Investigation Section.

Provides the Pesticide Investigation Section with the status of pesticide samplings and enforcement actions for work scheduling.

A monthly report gives the names of pesticide manufacturers and distributors, the EPA registration number for that pesticide, the sample number, date of collection, date of shipment from the manufacturer/distributor, any violations that may have been committed by the manufacturer/distributor to representation of the product or the efficacy of the pesticide under certain conditions, and the name (including the brand name) of the pesticide. Pesticide Investigation Section uses this report to facilitate its conduct of day-to-day operations such as: where to sample next; to trace down complaints of illegal or improper use of pesticide, or complaints of the ineffectiveness of the pesticide contrary to manufacturer's claims; to determine whether court action or other legal prosecution is warranted; and to report new findings to the EPA Headquarters.

An inspection of a pesticide sample is made, a report on a card is completed with preliminary information as to the findings, and a copy is sent to one of EPA's pesticide laboratories. The result of the lab test is forwarded to the Pesticides Regulation and to the Pesticide Enforcement Division at EPA Headquarters. The results of any enforcement action are forwarded to the Region 1 Pesticide Investigation Center where they are incorporated into the region's pesticide sampling information system.

ES-10272 PESTICIDE COLLECTION REPORT FILE EPA Region 7, Kansas City OPERATIONAL 1971 MANUAL. Wicklund, John C., Chief, Pesticides Branch.

Enables the Pesticides Branch to answer all queries on pesticide samples collected in EPA's Region 7 and of Region 7 shippers.

No formal reports are produced. Information is used to compile monthly status reports for the Pesticide Enforcement Division at EPA Headquarters. The major output is that of providing a source of reference to aid in answering all types of queries on product and sampling status. System is also used as a monitoring device for the operations of pesticide inspectors regarding volume of work accomplished and samples collected. In addition, information on case review regarding product citation and seizure is maintained. if applicable. Major informational elements in the system include violation identification, product name and identification, sample identification and number, disposition of the sample, reason for sample collection, and product dealer name and address.

Data is input into the system upon receipt of a collection report from a pesticide inspector from any EPA region in which the sample was collected, providing the product's shipper is in Region 7. A copy of the collection report serves as the basic record for the system since the original of the report is sent to the Program Enforcement Division at EPA Headquarters. Each pesticide inspector also keeps a copy. Collection reports are stored sequentially by case number, which currently contains 900 records. File contains both sample reports awaiting disposition and cases having received final disposition.

ES-10273 PESTICIDE ACCIDENTS FILE EPA Region 7, Kansas City OPERATIONAL 1971 MANUAL. Wicklund, John C., Chief, Pesticides Branch.

Provides the Pesticides Branch with a quasi-official, historic file on the status of pesticide accidents or episode's in EPA Region 7. Source of reference for inquiries from both the government and the general public.

No formal reports are produced. Copies of all accident or episode records are sent to the Pesticide Regulation Division at EPA Headquarters and other directly involved government agencies. The system also supplies background information for evaluating pesticide products and their manufacturers. In addition, it serves as case backup for those accidents involving legal action by EPA and the Justice Department. Major informational elements are human identification, medical treatment involved, animal identification, plant identification, environmental description, product identification and manufacturer, date of occurrence, weather conditions, application characteristics, symptoms, exposure, and probable cause.

A record is created upon receipt of an accident report from an EPA investigator. Additional information is added upon receipt of relevant data from other credible sources. Records vary in length and contain information loosely formatted as specified by the Pesticide Regulation Division. Each record is stored in a folder by the state in which the accident occurred by accident number (assigned by EPA, Pesticide Enforcement Division). File contains 20 records.

ES-10274 PESTICIDE IMPORT FILE EPA Region 7, Kansas City OPERATIONAL 1970 MANUAL. Wicklund, John C., Chief, Pesticides Branch.

Enables the Pesticide Branch to answer all queries on pesticide products entering the United States through EPA Region 7.

No formal reports are produced. Information from the system is used to compile statistics on pesticide product imports for the Pesticide Enforcement Division at EPA Headquarters. Also used to review all new entries of pesticide products to ascertain trends and

new products and to monitor foreign companies. Primarily serves as a reference for answering queries from other EPA Regional pesticide organizations and the general public and business. Major informational elements included in the system are broker identification, product identification, cosignee or importer name, import entree number, product's chemical name, and quantity and value of shipment.

A record is created each time a new foreign manufacturer or broker is identified from any pesticide products or economic poisons imported in Region 7. The source document and basic record is PR Form 171, which is a Customs Bureau notice from the District Director of Customs, noting the arrival of an economic poison as required by section 10 of the Federal Insecticide, Fungicide, and Rodenticide Act. If a notice applies to a pesticide product of a manufacturer already on record in the file, the PR171 is added to that record for storage. The file contains 80 records of variable length, consisting mainly of customs reports, copies of collection reports, and enforcement correspondence, if applicable. No records have been or are planned to be purged from the file.

ES-10287 PESTICIDE CHROMATOGRAPHY RECORDS FILE EPA Region 9, San Francisco OPERATIONAL 1965 MANUAL. Muth, Gerald, Chief, Chemistry Laboratory, Technical Support Branch.

Provides a cross reference index between the laboratory number assigned to a pesticide sample and the number assigned to the folder in which the sample's chromatogram is filed.

No reports are generated.

Each pesticide sample received by the laboratory for analysis is logged in and assigned a number. The chromatogram strip chart prepared for that sample is placed in a folder and given a number. A card with the laboratory-assigned number and the chromatogram number on it is generated for cross reference purposes.

ES-10293 PESTICIDE EPISODE FILE EPA Region 10, Seattle OPERATIONAL 1970 MANUAL. Poss, Robert A., Chief, Pesticides Branch.

Provides the Regional Administrator and the Pesticide Branch with a quasi-official historic file of all pesticides episodes or accidents in Region 10, and serves as reference in answering public inquiries.

No formal reports are produced. Copies of all episode or accident records are sent to the Pesticide Regulation Division at EPA Headquarters and other directly involved government agencies. The system provides background information in evaluating pesticide products and their manufacturers. In addition, it serves as case backup for those episodes involving legal action by EPA and the Justice Department. Major informational elements include human identification, medical treatment, animal identification, plant identification, environmental description, product identification, product manufacturer, date of occurrence, weather conditions, application characteristics, symptoms, exposure, and probable cause.

A record is created when an episode report is received from an EPA investigation. Additional information in loosely formatted narrative as specified by the Pesticide Regulation Division. Each record is stored in a file folder by episode number. File consists of 27 records.

ES-10294 PESTICIDES IMPORT FILE EPA Region 10, Seattle OPERATIONAL 1972 MANUAL. Poss, Robert A., Chief Pesticides Branch.

Pesticide Import File enables the Pesticide Branch to answer all queries on pesticide products entering the United States through EPA Region 10.

No formal reports are produced. Information is formed in preparing pesticide import statistics for the Pesticides Enforcement Division at EPA Headquarters. The system is used in reviewing all new entries of pesticide products to discover trends and new products and to monitor foreign companies. The system's major function is that of answering queries from other EPA pesticide organizations, the general public and business. Major informational elements are broker identification, product identification, cosignee or importers name, import entre number, products chemical name, amount, and value of shipment.

The system consists of 36 records. Each record concerns a particular foreign manufacture or cosignee and contains a customs form, PR 171, on each pesticide product imported from that manufacturer or cosignee. Each time a pesticide product is identified by U.S. Customs, PR 171 form is filled out by them and sent to the Pesticide Branch for storage in compliance with Section 10 of the Federal Insecticide, Fungicide, and Rodenticide Act. Copies of collection reports are inserted into the file when a sample has been collected on a foreign pesticide product import. Purging of records is not planned.

ES-10295 PESTICIDE SAMPLING INFORMATION SYSTEM EPA Region 10, Seattle OPERATIONAL 1970 MANUAL. Poss, Robert A., Chief, Pesticides Branch.

Enables the Pesticide Branch to answer all queries on pesticide samples collected in Region 10 and of Region 10 shippers.

No formal reports are produced. Information is used to compile monthly status reports to the Pesticide Enforcement Division at EPA Headquarters. The major output is that of providing a source of reference to aid in answering all types of queries on product and sampling status. The system is also used as a monitoring device for the operation of pesticide inspectors regarding volume of work accomplished and samples collected. In addition, the system provides information for case review regarding Enforcement Action. Major informational elements are violator identification, product name and identification, sample identification and number, disposition of the sample, reason for sample collection, and product dealer name and address.

Data is received from a collection report initiated by a pesticide inspector when a sample of a pesticide product is collected. A copy of the collection report serves as the file record and the original is sent along with the sample for laboratory analysis. The region's copy of the report is stored by state and sample number. The file currently contains 600 records of samples awaiting disposition and samples analyzed. Records are updated on receipt of the laboratory analysis. No plans are being made to purge the file of any records.

ES-10316 ELECTROENCEPHALOGRAPHIC PATTERNS OF MONKEYS EPA Lab, Perrine, FL OPERATIONAL 1970 AUTOMATED. Santolucito, J., Chief, Pharmacology Branch.

Aids in the research of primates exposed to pesticides by consolidating and refining the researchers observations by use of a selected statistical package.

Specific results rather than a formal report are the continuous output from the system. Certain pesticide products are given to selected primates, and the animals' reactions are recorded at certain intervals. Statistical runs are made using the recordings as inputs. The statistical output serves as a basis for further refinements in the experiments, or for a change in the approach to the research effort.

Observations are recorded manually and are input by keyboard and on-line into the PDP-8. The computer currently uses the following programs to process the observations: Signal Averaging Program, Time Interval Histogram Program, Auto-and-cross Correlation Program, and Statistical Routines. Aside from the PDP-8, a Burroughs UNISORT Analysis Card system is used to file and retrieve information from a 2000 card reference data base. The basic environment is experimental, batch, keyboard entry, laboratory-oriented PDP-8, (with DEKCAPE, printer and tape drives) with a 8,000-byte core requirement and consisting of four programs written in FORTRAN, BASIC, PAL, and FOCAL. **System Revised May 1973**

ES-10317 TOXICOLOGY DATA SYSTEM EPA Lab, Chamblee, Ga. OPERATIONAL 1950 MANUAL. Curley, August, Chief, Chamblee Toxicology Laboratory.

Provides toxicological information on the effects of pesticides in humans and laboratory animals by pathologic techniques.

A report, generated as required, is an individualized, clinical study or test that determines the effects of a pesticide in a particular situation. The study is forwarded to the requestor for his use. A copy of the study or report is maintained in the local

files.

After receipt of a request, an examination to determine the toxicological effect of a pesticide in a particular situation is performed. The findings are obtained and recorded in accordance with standard laboratory techniques. A report is prepared from the findings and returned to the requestor. It is contemplated to automate the technical data base for ease in storage and retrieval.

ES-10318 TOXICITY DATA FILE EPA Lab, Gulf Breeze, Fl OPERATIONAL 1961 MANUAL. Lowe, Jack I., Deputy Director, Gulfbreeze Laboratory.

Aids the laboratory's researchers specializing in a particular field of pesticide effects by maintaining records on the toxicity of different compounds to different species of estuarine organisms tested.

Data Summarized in quarterly and annual reports. Selected data published in scientific journals.

No formal data collection procedures are used. Files are updated as needed. There is no formal distribution made of the information; researchers actively seek the data as the need arises. **System Revised May 1973**

ES-10320 PESTICIDE TEST RESULT EPA Headquarters OPERATIONAL 1948 MANUAL. Kissler, Kenneth F., Program Coordinator, Pesticides Regulation Division.

Makes available to each laboratory as well as to headquarters staff, Registration Division, Pesticide Enforcement Division, Criteria and Evaluation Division and Technical Services Division reports on all products tested and the results of analysis performed.

The reports issued on a daily basis provide data on methods used, results of analysis and/or test, where analysis and/or test was performed and by whom. The data developed support registration, standards, enforcement and accident functions of the agency.

Samples of pesticides are collected by inspectors, assigned numbers and forwarded to one of four chemistry laboratories. The samples are then analyzed and reports prepared, of which the original is forwarded to headquarters and one copy remains at the laboratory. **System Revised May 1973**

204 RADIATION

ES-10029 ISOTOPE INVENTORY SYSTEM (RSINV) NERC, Las Vegas OPERATIONAL 1972 AUTOMATED. Coogan, John S., Radiation Safety Officer, Radiation Safety; Dillon, James, Computer Operator, Data Services, Technical Services.

Informs the Atomic Energy Commission of the amount of isotopes at the Center, in compliance with our licenses; also apprises the staff as to radio nuclide availability and replenishment levels.

Gives the Radiation Safety number (received as isotope arrives on station), isotope, calibration activity, calibration date, half-life in days, date received, custodian and location of isotope. **System Revised May 1973**

Processing steps under development.

ES-10084 NATIONAL ENVIRONMENTAL RADIATION DATA SYSTEM (NERADS) EPA Headquarters DEVELOPMENTAL 1972 AUTOMATED. Cuny, Philip A., Systems Analyst, Surveillance and Inspection Division.

Aids in monitoring the effects of radiation on humans and the environment by collecting and evaluating data on radiation levels in air, water, and food.

System is in the developmental stage and therefore produces no reports. Planned reports will be similar to the Radiological Health Data and Reports, and will probably be used principally by the EPA radiation laboratories in Las Vegas, Nevada, and Montgomery, Alabama, Office of Radiation programs; the Food and Drug Administration, the Atomic Energy Commission; State Public Health agencies; and the general public. Anticipated data uses are pathway, trend, and statistical analysis; selected retrieval; special reporting; and studies. Data in the system will include radionuclide results in water, air, soil, food, animals, and plants as well as common sample and site identification and location descriptions.

Reporting formats are being developed on common terminology and methodology of sample collection. All samples are expected to be analyzed in either of the two EPA radiation laboratories where results will be coded and sent to the Office of Radiation programs for keypunching. Edited listings will be made and returned to originators for corrections before system input and storage. Report generation retrieval and are expected to be controlled centrally in the initial stages. No firm plans have been developed on the hardware and software specifications.

ES-10085 INSTITUTIONAL TOTAL DIET SAMPLING NETWORK (ITDSN) EPA Headquarters OPERATIONAL 1961 AUTOMATED. Cuny, Philip A., Systems Analyst, Surveillance and Inspection Division.

Monitors the radiation level of food served to 9-to-12-year olds in U.S. institutions to ensure food with safe levels is consumed.

Primary output of the system is sample analysis results which are included in a monthly report that lists sampling locations and the radionuclide level of sampled food. Data is used by the Office of Radiation Programs, NERCs, the Food and Drug Administration, State Public Health agencies, and interested members of the general public for monitoring radiation levels, trend analysis, and research. Major informational elements are sampling station identification and location and the levels of strontium-89, Strontium-90, iodine-131, cesium-137, barium-140, and potassium-40.

Food samples are collected from 28 institutions for children, such as orphanages and schools, under contract to EPA in 23 states. Complete meals for one child are collected for a week once each quarter. Samples are sent to the EPA laboratories in Las Vegas, Nevada, and Montgomery, Alabama, for analyses. Montgomery submits results to the Office of Radiation Programs on a radionuclide data report coding sheet for keypunching; Las Vegas keypunches cards on site. All cards in Washington are listed and sent back to the data originators for editing and correction. Corrected listings are sent back to Washington for repunching and clean data is transcribed onto magnetic tape for storage. File contains 14,000 records, averaging 160 bytes per record. Ten applications programs, written in FORTRAN, are used for data sorts, manipulation, and report generation. Software requires 20,000 bytes of core storage on the Food and Drug Administration's IBM System 360/50.

ES-10086 TRITIUM NETWORK EPA Headquarters OPERATIONAL 1964 MANUAL. Cuny, Philip A., Systems Analyst, Surveillance and Inspection Division.

Aids in protecting the U.S. public from consuming water containing harmful levels of tritium by monitoring random samples of ground and surface waters to establish statistical benchmarks to evaluate tritium levels.

Principal output is sample analysis results which are listed on various issues of a report listing sampling locations and the tritium level of water samples. Data are used by the Office of Radiation Programs, NERCs, the Food and Drug Administration, State Public Health agencies, and interested members of the general public for monitoring tritium levels, trend analysis, and research. Major informational elements include sample station identification and location, tritium content, and error estimation.

EPA and state officials collect water samples for tritium analysis. State officials can use either EPA or non-EPA Laboratories for analysis. In the case of non-EPA laboratories, results are sent directly to the Office of Radiation Programs where data is keypunched, edited, and placed on magnetic tape for storage. All data from EPA laboratories is sent to the Office of Radiation Programs in a radiological data report for keypunching, editing, and storing on magnetic tape. Data file is not presently being manipulated and is not used in report generation. Plans are being made to automate the system.

ES-10087 HUMAN BONE NETWORK (HBN) EPA Headquarters OPERATIONAL 1961 AUTOMATED. Cuny, Philip A., Systems Analyst, Surveillance and Inspection Division.

Measures the effects of nuclear fallout on humans by testing human bones for levels of accumulated radionuclides.

Primary output of the system is sample analysis results which are included in a quarterly report listing sample locations and the accumulated radionuclide level of the sampled human bones. Data is used by the Office of radiation Programs, NERCs, State Public Health agencies, and interested members of the general public for monitoring radiation levels, trend analysis, and research. Computer printout listings are also produced quarterly on sampling results for up-to-date use of the data for trend analysis by the Division of Surveillance and Inspection (EPA) and the Bureau of Radiological Health (FDA). Major informational elements are sample identification and location, strontium-90, calcium, and bone type.

Bone samples are collected from deceased persons or during surgery by federal and state agencies. These samples are sent to the EPA radiation laboratories in Las Vegas, Nevada and Montgomery, Alabama, for analysis. Results are coded and keypunched in Las Vegas for submission to Headquarters. Montgomery results are transcribed onto a coding sheet for keypunching at Headquarters. Cards are listed on a computer printout which is returned to the data originators for editing and correcting the listing. Listing is returned to Headquarters for rekeying and clean data is stored on magnetic tape. File contains 2500 records, averaging 30 bytes per record. Records are being added at an average rate of 45 per month. No records are being purged. Two applications programs written in FORTRAN are used for data manipulation and report generation. System requires 20,000 bytes of storage on the Food and Drug Administration's IBM System 360/50.

ES-10088 PASTEURIZED MILK NETWORK (PMN) EPA Headquarters OPERATIONAL 1960 AUTOMATED. Cuny, Philip A., Systems Analyst, Surveillance and Inspection Division.

Monitors the radiation level of samples of pasteurized milk to ensure that is is safe for U.S. consumption.

The main output of the system is results of sample analysis, which are presented in a monthly report listing sampling stations and the radionuclide level of sampled milk. Data is used by the Office of Radiation Programs, NERCs, Las Vegas and Montgomery, the Food and Drug Administration, State Public Health agencies, and interested members of the public for monitoring radiation levels, trend analysis, and research. Major informational elements included in the network are sampling station identification, location, and the levels of strontium-89 and -90, iodine-131, cesium-137, barium-140, and potassium-40.

Monthly samples from 63 stations (at least one per state) are sent to either of the EPA Radiation Laboratories in Montgomery, Alabama, or Las Vegas, Nevada, where analysis is made and the results are placed on radiological data report coding sheets. Las Vegas keypunches sheets and submits cards; Montgomery sends in sheets for keypunching at the Office of Radiation Programs where all cards are listed. Listings are sent back to the laboratories for editing. Changes are noted on listings, which are returned to Washington for corrections. Cleaned cards are transcribed to magnetic tape. File contains 14,000 records, averaging 80 bytes per record. Two application programs written in FORTRAN and COBOL are used for data manipulation and report generation on the Food and Drug Administration's IBM System 360/50, requiring 20,000 bytes of core for operation.

ES-10190 FELINE COLONY INFORMATION (THE CAT SYSTEM) NERC, Durham DEVELOPMENTAL 1969 AUTOMATED. Liddle, Charles G., Chief, Biophysics Unit; April, Raymond, System Analyst, Management Information & Data Systems Div.

Tests health effects of radiation on a large research feline colony. Also used for colony management.

The system is presently being converted from an IBM System 360/30 to an IBM System 370/155. A description of future reports and processes are not presently available. Previously, sixteen different classes of information were collected and stored. More are now in the planning stage. All sixteen classes of information plus two computed pieces of data were listed according to a prearranged schedule in the form of a computer printout. In addition, specialized listings or reports were printed out on an as-needed basis. All listings and reports were used internally by the Toxicological Studies Section for following experiments or preparing reports or papers. The sixteen classes of information are: birth record; death; location; breeding; heat; blood formed elements; comments on blood formed elements; blood differential; comments on blood differential; blood collection; counting background; metabolism counting; whole body counting; weight; serum chemistry; cat history. The two computed elements are associated with blood formed elements and blood differential. The system is presently at Twinbrook Laboratory in Rockville, MD, but will soon move to the NERC at Durham.

Data is collected on preprinted forms, one form for each of the sixteen different classes of information. They are keypunched and their image transmitted to the computer by remote terminal for on-line batch processing. The first nineteen columns of each card are the same and are the key for the index sequential organization of the file. The individual records are edited and added to the file. The edit process checks for validity and appends information concerning the age and sex of the animal at the time of observation, the date of entry of the information, and the type of entry, i.e., new, correction. A listing of the records entered and rejected along with the reason is returned to the remote terminal. In addition, the edit program performs calculations on some of the records, the blood formed elements, and blood differential, and generates additional records. The data file is presently updated daily. Data listings of selected classes of data are returned on a bi-weekly, monthly, or quarterly basis depending on the class of information. The reports are used to follow the progress of experiments and analyze results for reports preparation. Three classes of information, birth records, exposure records, and embryo birth records are combined to produce an exposure summary which is used along with the counting background and efficiency data to analyze the metabolism counting data. This portion of the system is operating on the NERC IBM System 360/50 in North Carolina and involves eleven PL/1 programs and two utility programs. Additionally, a file of bibliography listings and abstracts of articles concerning the cat is being run on bureau of Radiological Health's IBM System 360/50. **System Revised May 1973**

ES-10197 AIR DATA MANAGEMENT NERC, Las Vegas OPERATIONAL 1967 AUTOMATED. Corkern, Willis D., Chief, Air Surveillance Section; Whitesell, James T., Systems Analyst, Data Acquisition and Analysis Branch.

Aids safety programs by providing daily radioactivity by location using air sampling; determines the need for further investigation or corrective action.

Two reports are prepared for internal use, a Daily Air Report and a Daily Gross Beta Results Report. Two reports are prepared for external use, a Monthly Air Report and a Monthly Gross Beta Radioactivity Concentrations in Air, Summary. The Daily Air Report lists frequency and quality of air samples by station numbers. It is used to monitor the regularity of reporting by station. Daily Gross Beta Results Reports are recorded, in picocuries per cubic meter, readings from each station by reporting number, name, and location. It is used to monitor results of reporting stations and to verify unusual incidents. Monthly Air Report lists all data from each station for the reporting period. It is distributed to NERC, regional EPA office and state agency where the station is located. Monthly Gross Beta Radioactivity Concentrations in Air, Summary gives the number of samples collected and the minimum, average and maximum concentrations in PCI/M**3 of each station. It is published in Radiation Data and Reports. Both monthly reports are used to monitor radiation levels for statistical analysis and evaluation of safety programs.

Twenty-four hour samples of airborne particulates from 21 Western States are collected daily at each active station on 4-inch diameter, glass-filters at a flow rate of about 350 cubic meters of air per day. Sample filters and field data forms are returned to

the NERC Las Vegas for analysis, where the filter is received by sample control along with its field data form. Receipt of the sample is made on a posting form and obvious errors are corrected. The collected information is keypunched and the sample along with its cards is submitted for a beta count. Particulate filters are counted 5 minutes for gross beta radioactivity as soon as they are received, and at 5 and 12 days after collection. Those filters with total gross beta radioactivity of 500 CPM or greater are gamma scanned. Individual count cards are submitted for data processing. Beta activity concentrations at time of count, are extrapolated to mid point of collection to produce a report of values. Programs are also used to analyze and report surveillance data. The system consisting of 10 application programs written in COBOL and FORTRAN operating on AEC's CDC 6400 computer with a minimum core of 56,000 words. **System Revised May 1973**

ES-10198 MILK DIRECTORY INFORMATION SYSTEM NERC, Las Vegas OPERATIONAL 1968 AUTOMATED. Alton, David W., Chief, Data and Report Unit; Friedland, Michael J., Systems Analyst, Data Acquisition and Analysis Branch.

Provides data to evaluate possible effects of events at the Nevada Test Site. Provides a directory for obtaining information on current human and dairy cow population in selected areas of Utah, Nevada, Arizona and California.

Two areas of reports are available: a Directory/Listing Report; and a Milk Cow/Feed Summary Report. The content and areas covered by these Reports is controlled by a set of parameters provided by the report requestor. The requestor selects the area to be reported by giving the latitude and longitude to be used as a control point and the azimuth increment and direction that is to be searched. Also indicated is what grades are to be included, whether it should be by population or dairy cow and feed, what types of feeds available, number of months on feed, and types of storage.

All data is collected by field representatives and punched into a series of cards for input into the system. The cards are edited and validated by a series of programs. Selected areas are updated periodically, in particular, those areas immediately surrounding the Nevada Test Site. The data collected for each state is maintained on separate tape in sequential order. The system consists of 8 application programs written in FORTRAN and operating on AEC's CDC 6400 computer using a minimum core of 85,000 words.

ES-10199 STANDARDS INVENTORY SYSTEM NERC, Las Vegas OPERATIONAL 1971 AUTOMATED. Smiecinski, Ralph F., Chief, Quality Control Services; Dillon, James R., Systems Analyst, Data Acquisition and Analysis Branch.

Maintains a current inventory of radioactive standards by isotopes. Used to identify types of isotopes on hand, their remaining activity, and the amount used during the reporting period.

A Quality Control Radioactive Standards Inventory is prepared monthly and contains a listing of all standards on inventory, ordered by isotope and arranged by amount of activity, quantity, number of dilutions, half-life since calibration, chemical form, supplier and grams used during the reporting period. A Quality Control Radioactive Standards Daily Usage Log is prepared monthly and contains the date an isotope was prepared for use, the requestor, type of isotope, dilution number, calibration date, amount used, chemical form, supplier, and purpose. A third report, Quality Control Samples Prepared during the Period is also prepared monthly and contains the requestor, the isotope, and types and numbers of samples prepared. The reports are used by the Quality Control Section in maintaining accountability of radioactive samples by isotope in their custody.

Additions and requests for standards are keypunched from the Quality Control Standard Inventory and Request for Standards forms, respectively. The data is machine-edited and validated. The inventory is updated and the radioactivity of the remaining standards is individually calculated. The system consists of three application programs written in FORTRAN and operating on AEC's CDC 6400 computer requiring a minimum core of 45,000 words. **System Revised May 1973**

ES-10200 INDOOR RADON INDEPTH AIR SAMPLING DOSIMETRY DATA BASE NERC, Las Vegas OPERATIONAL 1971 AUTOMATED. Duncan, David L., Staff Officer, Uranium Tailing Branch; Moore, John M., Systems Analyst, Data Acquisition and Analysis Branch.

Aids personal health and safety programs in Grand Junction, Colorado, by providing information on structures exposed to radio isotopes caused by the use of fill containing Uranium Mill Tailings in their construction.

Two weekly reports are prepared, the Indoor RADON Indepth Air Sampling Weekly Data Verirication and the Indoor RADON Indepth Sampling Weekly Working Level. Both are used by the Uranium Mill Tailings Project Officer and the Colorado Department of Public Health to verify all input data and coordinate the project. A third report produced monthly, the Indoor RADON Indepth Air Sampling Comprehensive Working Level, contains the calculated average working levels for multi-air-sampled locations in Grand Junction, Colorado and is used by the Joint Committee on Atomic Energy and the EPA to determine which structures meet established criteria for assistance to alleviate their radiation problem. These reports are also used by the Colorado Department of Public Health to determine possible personal exposure and inform owners of the level of radiation calculated for their structures.

Calibrated thermal luminescent dosimeters (TLD's) are used to collect air samples for one week out of each two months per structure being surveyed. Six different readings per structure, per year is desirable. Sample filters and field data forms are returned to the NERC, Las Vegas for analysis. Receipt of the sample is entered on a posting form and obvious errors are corrected. The collection information is key punched from the form and submitted along with the samples for analysis. The count data from the analysis is automatically punched. Following submission for data processing, programs check for a variety of data errors and calculates the beta activity concentrations at the time of count. The concentration values are used in computer programs to determine Working Levels (amount of alpha energy given off during decay of the short half life daughters of RADON of each structure) and used to produce weekly reports for verification of data. Verified data is sorted by location numbers and generated in comprehensive report. Combined Working Levels for duplicate runs and average Working Levels for multi-sampled locations are calculated. The system consists of three application programs in FORTRAN operating on the AEC CDC 6400 with minimum core requirement of 45,000 words.

ES-10201 URANIUM MILL TAILING SURVEY DATA BASE NERC, Las Vegas OPERATIONAL 1971 AUTOMATED. Duncan, David L., Staff Officer, Uranium Tailing Branch; Allison, George C., Systems Analyst, Data Acquisition and Analysis Branch.

Aids in determining the personnel health hazard by measuring extent of exposure of the populace of Grand Junction, Colorado to Uranium Mill Tailings that were used for construction and fill. Used to coordinate the field survey and to determine what areas are candidates for a detailed study under the Indoor RADON Indepth Air Sampling Program.

A series of reports can be generated from the data base and consist of the following: Short Address Listing, Long Address by City, Long Address by County High Inside Gamma-High Outside Gamma, Summary, Address by County High Inside Gamma-High Outside Gamma, Summary, Mailing Labels Proof, and Mailing Labels Finals. In addition there are 9 retrieval options and 11 sort options. All reports are used by the Uranium Mill Tailing Project Officer in managing and coordinating the survey of the affected area, and in determining areas of structures to be considered for the Indoor RADON Indepth Air Sampling Study. Mailing labels are used to forward the results of the survey to the home owner.

Buildings in Grand Juntion, Colorado, are being screened for possible radiation hazards. As each location is monitored, data is entered on an Indoor RADON Study Gamma Screening Form and reviewed for accuracy by a field supervisor. It is then sent to NERC, Las Vegas, for keypunching and entry into the system. An entry is made if a gamma map is needed and if a study is warranted. A series of reports are produced for use by the Project Manager in determining what locations need gamma maps and/or return calls, whether screening was completed, and whether the location should be considered for additional

monitoring. The System consists of nine application programs written in COBOL and FORTRAN and operates on AEC's CDC 6400 requiring a minimum core of 16,000 words. The data base is maintained on disk.

ES-10202 DOSIMETRY SYSTEM NERC, Las Vegas OPERATIONAL 1972 AUTOMATED. Fitzsimmons, Charles K., Chief, Dosimetry Unit; Whitesell, James T., Systems Analyst, Data Acquisitions and Analysis Branch.

Provides continuous radiological monitoring of off Nevada-Test-Site environment by use of thermoluminescent dosimeters at approximately 100 fixed stations and on about 60 off-site residents.

Calculate environmental background and net exposures by a statistical algorithm and stores exposure data for routine reporting and for special file interrogation. Allows historical review of exposures which is considered in planning nuclear tests. as monthly incident, cumulative, annual, and historical. Exposure dosage rates for personnel are shown for the same time cycles. Rates are expressed in milli roentgens (MR) per day. Station reports show environmental background, average exposure per day and net exposure based upon difference between background and monitor readings. Personnel reports show by individual the exposure with thirteen week, twelve month, and historial sums of net exposure. The report gives an alert when sum exceeds 1250 MR for thirteen weeks, and 3000 and 5000 levels for twelve months. Historical incident readings can also be obtained for individual showing locations where exposure occurred. Information from these reports is used by NERC Las Vegas and AEC surveillance organizations to monitor excessive exposures and emissions from nuclear tests. Results from tests are used to determine effects of the material tested and to control access to test areas.

Dosimeters which are exchanged monthly at 100 fixed locations and with 60 off-site residents provide gamma exposure data. Data and identification are keypunched and processed by an edit program which checks for logical validity. Corrections are made by the dosimetry unit staff. A central file of calibration factors for each dosimeter is used to adjust readings before results are added to a master data file maintained on a disk pack with tape backup. Background for fixed stations is calculated by statistical methods using the past 12 meas- urement periods. Personnel exposures are compared to station back- grounds and the difference is filed as personnel net exposures. Historical exposure records are maintained on each person and station. These data can be retrieved in a number of formats. The system consists of 55 application programs written in COBOL and FORTRAN operating on AEC's 6400 computer with a minimum core requirement of 122,000 words. **System Revised May 1973**

ES-10203 SURVEILLANCE DATA MANAGEMENT NERC, Las Vegas OPERATIONAL 1971 AUTOMATED. Snelling, Robert N., Chief, Data Acquisition and Analysis Branch; Allison, George C., Systems Analyst, Data Acquisition and Analysis Branch.

Presents data generated by the processing of environmental samples at the NERC, Las Vegas, laboratory. The processing that provides the data for input is a production type process designed to analyze routine as well as special environmental samples for gross and specific alpha and beta counting, specific radio chemistry and gamma counting with qualitative and quantitative spectral analysis.

Four programs are available to present the stored data in a variety of formats. Sort options available are program, city, county, state, region, sample type, sample sub-type, lab number, collection date, collection time, location code, use code, and event.

Location descriptions are edited and validated by the location file generation program which is also used to update the current tape file. A maximum of 1024 locations are allowed. Data cards received for storage are validated, converted from card to data base format, and merged with their location description and used to update the current file on tape. The data retrieval program allows limits to be placed on various codes on the fixed portion of each data record. Each record of the data file is read and the specified codes are compared. Records falling inside the limits are written on one file while those outside are written on another. This allows retrievals to be made by either selecting certain records or eliminating certain records. Four programs have been written to present data. Tables are used by the programs to provide units and state names in place of the numeric codes contained in the data records. Additional programs are being developed that will produce plots, dose estimates and average concentratios. The system consists of 8 application programs written in COBOL and operating on AEC's CDC 6400 using a minimum core of 16,000 words. **Syst Revised May 1973**

ES-10204 QUALITY CONTROL CROSS-CHECK DATA BASE NERC, Las Vegas OPERATIONAL 1972 AUTOMATED. Smiecinski, Ralph F., Chief, Quality Control Services; Allison, George C., Systems Analyst, Data Acquisition and Analysis Branch.

Provides laboratories with a quality control check on their analysis of a known radioactive sample.

A monthly letter sent to each laboratory describes statistical methods and terminology and includes historical plots by month showing the Normalized Deviation From Known, Normalized Deviation from Grand Average and Normalized Range for each different sample analyzed. In addition, a printout of the analysis of the other participating laboratories of the same type of sample is included. The information assists each participating laboratory in determining their own quality of output compared to others and to detect trends.

Each laboratory returns a Cross-Check Data Sheet for each supplied sample, giving sample number, type, collection date, and three separate analyses of the sample. This data is transcribed onto the Quality Control Cross- Check Coding form for keypunching. Previous historical data is also entered into the system and updated with the new data. Selected statistical programs and algorithums are used to analyze the input and prepare graphs. The system consists of two application programs written in FORTRAN and operates on AEC's CDC 6400 Computer requiring a minimum core of 20,000 words.

ES-10205 ESKIMO SURVEILLANCE NERC, Las Vegas OPERATIONAL 1966 AUTOMATED. Eckert, John A., Chief, Dose Assessment; Snelling, Robert N., Chief, Data Acquisition and Analysis Branch.

Aids Alaskan Eskimo health programs by establishing trends of individual Cesium-137 ingested by location.

Two semi-annual reports are produced, one lists the raw data for editing before entering into the system and the other summarizes the verified data. The following data is contained in the reports; name of individual surveyed, sex, weight, 137-CS concentrations, radiation dose index, and location. These reports are used by the NERC Dose Assessment organization to monitor excessive exposure, develop trends, and identify areas of excessive intake for possible corrective action.

A TMC multichannel analyzer is used to obtain a gamma ray spectra tape from each Eskimo analyzed in conjunction with a personal history card. The data taken from the spectra tape is keypunched for input into a program for conversion to a Cesium-137 body burden for each individual surveyed. The personnel data is matched with the body burdens and the output is edited. The system consists of two application programs written in FORTRAN and operating on the AEC's CDC 6400 with a minimum core requirement of 10,000 words. The data base is maintained on cards.

ES-10206 RADIO NUCLIDE INVENTORY EPA Lab, Montgomery, AL OPERATIONAL 1972 AUTOMATED. Norwood, D., Statistician, Eastern Environmental Radiation Laboratory.

Informs the Atomic Energy Commission of the amount of nuclides used in laboratory work, and apprises the staff as to radio nuclide availability and replenishment levels.

One report describes the location, by building, of the various radio nuclides. It also lists the isotope designators, the label number, the account number and the half-life of the isotope.

A Usage Report is forwarded by the Radiological Counting Section to the Data Processing Section. Inputs to the Nuclear DATA 812 computer are keyed in.

A contractor provided operating system and application program perform the computations regarding the half-life of the isotopes, the amount used remaining, and tabulates the results. System environment is as follows: keyboard, on-line, real-time, medium speed printer, magnetic tape and paper tape. System minimum core requirements are 8,000 bytes. Largest file has 200 records of 40 bytes each, and the computer is a Nuclear Data 812 which may be replaced by a PDP-8.

ES-10312 NEVADA TEST SITE - OFF-SITE HUMAN SURVEILLANCE SYSTEM NERC, Las Vegas OPERATIONAL 1970 MANUAL. Eckert, John A., Chief, Dose Assessment.

Aids health and safety programs by providing information on the amount of radionuclides found in groups of individuals. Used to correlate calculated body burdens and known past fallout deposition patterns.

An annual report is prepared from the statistical analysis performed on the data collected from the individuals by location. The information is used by the AEC and EPA in future planning within the NTS, for historical reference, trend analysis, and the study of health effects.

A medical history, blood sample, urine sample and a whole body count is obtained from each individual. A blood profile is performed on the blood sample, the urine is analyzed for H3 and Pu, and the gamma ray spectra tape from the multichannel analyzer is analyzed for K40 and Cs137. Before all the data is entered into a Wang 700 programable calculator to perform correlation analysis, a visual validity check is performed. The output is used to produce the annual reports by location. Approximately 1,200 records of individuals surveyed are maintained.

ES-10313 WHOLE BODY COUNTING SYSTEM NERC, Las Vegas OPERATIONAL 63 MANUAL. Eckert, John A., Chief, Dose Assessment.

Aids personal health and safety programs by providing information on individuals suspected of exposure to various radionuclides. Data used to identify positive exposure and calculate the body burden of the individual.

A report is prepared on each individual giving the calculated body burden. Information from this report is used by AEC and EPA in possible legal litigations, to discover accident trends, and to review radiation safety plans.

The individual is placed in a Whole Body Counting Chamber where a multichannel analyzer produces a gamma ray spectra tape. The tape is analyzed by a Wang 700 programable calculator and produces a body burden which is validated visually. A personal history is collected of such major items as organization, age, weight, name and address. The name is used as an index to the spectra tape generated. The report is produced from the information collected on personal history and the calculated body burden. All data is maintained on file.

ES-10314 BIOASSAY PROGRAM NERC, Las Vegas OPERATIONAL 1965 MANUAL. Coogan, John S., Safety Officer, Radiation Safety Division.

Provides information on individual exposure to radio isotopes so that health and safety programs may be reviewed and to pinpoint areas of safety irregularities.

Reports generated periodically give the name of the individuals tested, the date and time of sample, and the results of analysis. These results are used by the NERC Safety Officer to control personal contact with radioactive material, to provide a legal record of level of exposure of individuals, and to evaluate the NERC Radiation Safety Program.

Selected personnel who are exposed or suspected of exposure to radio isotopes are scheduled to give urine samples which are examined for tritium, plutonium, and radioactive mercury. The results are reviewed and then along with the individual's other identifying data are keypunched into the Surveillance Data Management System for formatting and printouts. The system's report generation programs are written in COBOL.

ES-10315 PERSONNEL EXPOSURE SYSTEM NERC, Las Vegas OPERATIONAL 1958 MANUAL. Coogan, John S., Safety Officer, Radiation Safety Division.

Provides information on individual exposure to radio isotopes. The information is used to control personal contact with radioactive materials and provides a legal record of individual exposure required by the Atomic Energy Commission.

The Personnel Exposure Report is prepared monthly by an independent laboratory after analysis of personnel film badges. The report cites the individual's name, social security number, birth date, yearly total exposure, quarterly exposure, and organization as required by the AEC. Special reports are prepared periodically. The information is used by the Safety Officer to evaluate the NERC Radiation Safety Program and to control personal contact with radio isotopes.

Monthly or on special occasions each person employed by the NERC is required to turn in his Dosimetry film and identification badge to the Safety Officer for analysis to determine level of exposure.

206 SOLID WASTE

ES-10095 SOLID WASTE INFORMATION RETRIEVAL SYSTEM (SWIRS) EPA Headquarters OPERATIONAL 1967 AUTOMATED. Connolly, John A., Technical Information Officer, Technical Information Staff.

Provides a comprehensive reference to published international literature on solid waste management to speed technological transfer.

Abstracts with author and subject indexes are published monthly. Solid Waste Information Retrieval Systems (SWIRS) also offers general inquiry, literature search, technical translations and user seminar services. Federal, state, and local agencies in the United States and abroad, as well as members of the general research and development community, consulting engineers, attorneys, students and others of the lay public, use these services to further knowledge of new techniques and principals, and to keep abreast of current research projects.

Documents entered in SWIRS are drawn from international literature on solid waste management covering a core list of approximately 700 titles as well as primary and secondary periodical literature. Other sources include patent literature from the United States and eight foreign countries and conference papers, books, technical reports, monographs, and laws. A full citation, including English titles of foreign-language documents, and informative abstract and key word index terms are prepared for documents. Paper and microfilm files of these profiles are maintained to facilitate retrieval and copies of all documents accessioned are stored in the library. Written, phone, or in-person inquiries are honored for information that can be provided without a machine search. Referral services direct an inquirer to the Office of Solid Waste Management Programs (OSWMP), other agencies of the Government, or specialists in the subject area requested. SWIRS computerized data bank, containing information on 18,000 scientific and technical documents is used for comprehensive literature searches. Such requests should be directed to: SWIRS, P. O. Box 2365, Rockville, Md., 20852. Answers to requests, entered and monitored from a communications terminal, show document accession numbers and/or full abstracts. Abstracts are screened by an information analyst for relevance to search topics. Hard copies of relevant abstracts, with bibliographic citations, are reproduced from microfilm to answer requests. The system operates on an IBM System 370/165 at NIH using WYLBUR software for file maintenance and retrieval of bibliographic data.

ES-10250 STATUS OF RECYCLING SYSTEM EPA Region 1, Boston OPERATIONAL 1971 MANUAL. Huebner, D., Acting Chief, Grant Support Section.

Seeks to aid public usage of solid waste recycling facilities by maintaining a listing of recycling plants, collection points, their capabilities and location.

Principal source of statistical and descriptive

data collected on recycling points is the various publications requested from state agencies. These are retained for management purposes and provides the source of information on all recycling collection points and their capabilities in Region 1. It is used to answer public inquiries and provide data to the Office of Solid Wastes in Cincinnati.

Data is extracted from publications produced by the state solid waste authorities, tabulated and filed.

ES-10251 LEACHATE EPA Region 1, Boston OPERATIONAL 1972 MANUAL. Leighton, Ira W., Sanitary Engineer, Solid Waste Management Branch.

Aids in distributing data on leachates, such as location and treatment resulting from solid waste disposal.

The data base consists of technical articles, reports, journals, and other specialized publications describing the results of solid waste treatment and control as related to leaching. The information is used to respond to queries regarding leachates.

Technical literature is scanned and the Cincinnati NERC queried for all publications relevant to leaching. There is no formal structure to the data base.

ES-10296 SOLID WASTE DISPOSAL SITES INVENTORY EPA Region 10, Seattle OPERATIONAL 1970 MANUAL. Tate, Willis, Staff Assistant, Categorical Programs Division.

Provides the Categorical Programs Division with the capability to monitor the status of all solid waste disposal sites identified in Region 10 by the Mission 5,000 Survey.

No formal reports are produced. Output is mainly that of providing reference information. The information is displayed on a large situation map of Region 10. All sites are identified by a color-coded pin that is placed at the location of the site and indicates whether the site is unacceptable, closed, modified, or critical. Major data elements maintained in the system include site identification, site conditions, zoning data, operational characteristics, political jurisdication, control programs, quantities of waste handled annually, and equipment availability.

The file was initially created from the Mission 5,000 Survey. Each record consists of the EPA form, Community Solid Waste Practices and Disposal Site Investigation Report. Records are updated by reports received from State officials responsible for solid waste on any changes in site status such as closings, modifications, or plans for such changes. The file contains 150 records, which are filed alphabetically by state.

206 WATER

ES-10018 CONTRACT AWARDS IN SEWAGE FACILITIES CONSTRUCTION EPA Headquarters OPERATIONAL 1952 AUTOMATED. Pandolfi, Thomas, Systems Analyst, Monitoring Survey Section.

Aids in evaluating the economic impact of the construction grant program by maintaining data pertinent to government contracts awarded to build sewage treatment facilities.

Reports consist of thirty to forty tables printed each month to show summaries of contract awards by month, year, state and type of system. These are used by the Economics Group at EPA headquarters and the regions for infomation and analysis. Awards can be listed by the dollars granted to treatment facilities and to collecting sewer systems.

Each month EPA Headquarters extracts pertinent information regarding contract awards of sewage facilities construction from various public sources. Code sheets are then filled out, the data is punched and the file is updated. The records are grouped by month to show all summary information. The on-line system consists of 40 PL/1 applications programs on an IBM System 370/155 with a minimum core of 250,000 BYTES.

ES-10034 STORAGE AND RETRIEVAL OF WATER QUALITY DATA (STORET) EPA Headquarters OPERATIONAL 1963 AUTOMATED. Conger, Charles S., Chief, Information Access and User Assistance Branch.

Provides information to aid in determining cause and effect relationships of water pollution.

This system stores information for direct access and retrieval by more than 150 medium/low speed terminals at more than 130 locations at Headquarters, Regions, Centers, Labs, State and local agencies, and Research Grantees. Aids in determining cause and effect relationship in water pollution by providing information on water quality standards, waste discharges, abatement needs, construction costs, implementation schedules, and manpower needs. Reports on all above topics are generated and distributed through EPA communications network.

Eight water quality related systems use STORET software. After data is collected, it is input through terminals in STORET format. Data are stored on high speed random access devices enabling response to over 1,000 information requests daily. Information is necessary to management decisions for: definition of problem areas including waste sources (cause) and resulting ambient water quality (effects); knowledgeable allocation of Agency efforts toward abatement and control in high priority problem areas; trends in water quality control; identification of specific polluting waste sources; and municipal waste treatment facility construction needs. Consists of 450 COBOL, FORTRAN and PL/1, programs on IBM System 370/155 with minimum core of 285,000 bytes.

ES-10034.01 WATER QUALITY FILE SUB-SYSTEM (STORET) EPA Headquarters OPERATIONAL 1968 AUTOMATED. Tutwiler, Clarence, Acting Chief, Information Access Section.

Provides water quality monitoring data for assessing progress in achieving water quality standards, establishing targets, and identifying water quality violations with the intent of enforcing neglected standards.

In addition to providing a basis for the enforcement of standards, the annual reports detail river basin planning, design experiments, perform math modeling, suggest trends, and originate standards. The reports are formatted in accordance with the users' needs. Using a parameter number, an interactive program locates all data stored under that number. The user can put his own data into the file to be processed and compared with other inputs, and develop his own front-end programs. Application programs are available to perform plotting, indexing, and computation. EPA and other using agencies can access the biological file or the keyword search file.

Data is collected from 6,000 EPA water quality monitoring stations (state, regional, river basin), plus 27,000 stations operated by other agencies. Data consists of analyzed water quality samples, taken at the rate of 50,000 per week, validated prior to entry into data base. File is accessed 250 times a day. Interactive capability exists at headquarters, and will extended to regions. Storage, retrieval, and update program packages have been written to provide complete access. Consisting of 32 application programs written in PL/1, the system (STORET) operates on an IBM System 370/155 with a minimum core requirement of 250,000 bytes.

ES-10034.02 AUTOMAP SUBSYSTEM (AUTOMAP) EPA Headquarters OPERATIONAL 1970 AUTOMATED. Tobin, Charles, Computer Systems Analyst, Monitoring Graphics Section.

Seeks to improve the usage of the STORET system by relating digitized map locations to STORET data for analysis and reference.

Outputs consist of a master map file, map plots, listings, and microfilms for STORET users; the Sub-Systems allows STORET data to be associated hydrologically by latitude and longitude and River Mile Index. Master maps are USGS maps containing hand-coded data for digitization, showing STORET major/minor basin boundaries and their code numbers, water quality standard use zones and applicable uses, influent and effluent points, water quality sampling stations, stream flow stations, and navigational and estuarine zones. Plots include a river plot, River Mile Index plot, station plot, and master plot. Listings show river mile distances and

latitude/longitude for water quality control information points, rivers by name, and summaries by river basin of pertinent river data.

An operator, using a stylus from a digitizer and keyboard, creates a magnetic tape file for each map. The master file is made up of four index sequential files. A record is created for each map, stream, point of interest, stream descriptors, and other identifiers. Consisting of 13 application programs written in PL/1 and Fortran, the system operates on an IBM System 370/155 with a minimum core requirement of 380,000 bytes. **System Revised May 1973**

ES-10034.03 MAP INVENTORY AND STATUS SUB-SYSTEM (MISS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Tobin, Charles, Computer Systems Analyst, Monitoring Graphics Section.

Acts as a monitor to the AUTOMAP system by providing the location and AUTOMAP processing status of maps in EPA's inventory.

The STORET Map Inventory and Status Sub-system (MISS) facilitates the controlling of EPA's map inventory and the monitoring of the production of digitized maps. MISS provides graphical and printed information about the current location and automap processing status of every map in the EPA inventory.

After USGS maps are received by Headquarters, identification data is entered into MISS. Contents are monitored for accuracy and completeness. Data is extracted from the file for printout and plots. Consisting of 35 application programs written in PL/1 and FORTRAN, the MISS Sub-system operates on an IBM System 370/155 with a minimum core requirement of 242,000 bytes. **System Revised May 1973**

ES-10034.04 CITY MASTER FILE (STORET) EPA Headquarters OPERATIONAL 1964 AUTOMATED. Pandolfi, Thomas, System Analyst, Monitoring and Survey Section.

Lists U.S. cities with their water and sewage facilities, to index STORET system files.

City directory report is produced weekly from this system. Used by headquarters EPA and regions for control and indexing, and to cross reference other national systems. Its data includes all city identification such as location, name, state, county, standard metropolitan statistical area, population, congressional district and major/minor basin.

City master deck data form is generated when new city is input into system. Data supplied by regions, file is updated, and sorted into two index sequential files to provide cross reference checks against STORET, RAPP, Industrial Implementation and Municipal Waste Files. Software consists of 3 PL/1 applications programs run on IBM System 370/155 requiring minimum core of 150,000 bytes.

ES-10034.05 FISH KILL FILE (STORET) EPA Headquarters OPERATIONAL 1960 AUTOMATED. Pandolfi, Thomas, Systems Analyst, Monitoring and Survey Section.

Provides nationwide information on major fish kills and their causes to aid in enforcing regulatory legislation on violating manufacturers.

Reports produced on request contain information on location, date, time and cause of fish kills from other than natural causes and are used by the Regions and State offices for the imposition of fines. Information also details the type of fish killed (game, non-game, commercial), estimated number killed, severity, duration, area affected, and pollution source by operation (agriculture, industry, municipality, transportation, and constructions).

Reports filed by state or regional offices are mailed to EPA headquarters, where extracted data is put into the system by punched cards. Output reports are generated by EPA Headquarters. State and local agencies can retrieve data from the system by communication terminals. Consisting of 25 application programs written in PL/1, the system (STORET) operates on an IBM System 370/155 with a minimum core requirement of 250,000 bytes.

ES-10034.06 CONSTRUCTION GRANT NEED COST SYSTEM (STORET) EPA Headquarters OPERATIONAL 1957 AUTOMATED. Lewis, Jesse L., Chief, Monitoring Survey Section.

Estimates costs of municipal waste water treatment facilities and provides a base for budgeting federal grants. Estimated costs are determined by an analysis of past trends in geographic areas, state and municipal expenditures, and labor and material costs.

Reports show semi-annual projects approved and pending grants. These reports are used by Construction Grants Division, EPA Headquarters, to determine estimated cost of municipal waste water treatment facilities.

Monthly punched card inputs are received from the reporting regions containing pertinent current information. The major file for the system is divided into two records: Community; and Facility, Need, Cost. The Community record identifies the community, population, congressional district, use charges and date charge rate was established and information regarding persons or states providing or reviewing data. The Facility, Needs, Cost record identifies the facility within the community, project name, percent of industrial waste processed, constructional and operational dates, and employment information. The on-line system interfaces with the STORET System and consists of 5 PL/1 applications programs on an IBM System 370/155 with a minimum core of 270,000 bytes.

ES-10034.07 MUNICIPAL WASTE NEEDS FACILITIES INVENTORY (STORET) EPA Headquarters OPERATIONAL 1969 AUTOMATED. Lewis, Jesse L., Chief, Monitoring and Survey Section.

Provides information for estimating overall national requirement for waste water treatment plants, and operating characteristics for plants in operation.

Output reports are used to specify data for complete description of municipal waste water treatment facilities, and also to estimate modifications to existing plants, construction dates, size and costs of new plants. Reports also show pending enforcement actions, construction grants and related data.

Data are input through low and medium speed terminals on a daily basis to IBM System 370/155 operated by Boeing. Input format is STORET specified. Retrieval from low and medium speed terminals is accomplished by utilizing retrieval format cards, which list directories, inventories, waste treatment needs, implementation schedule compliance, and other reports. Consists of 12 PL/1 application programs. A minimum core of 80,000 bytes is required.

ES-10044 ACCOMPLISHMENT PLANNING AND REPORTING SYSTEM EPA Headquarters OPERATIONAL 1972 MANUAL. Meek, James W., Chief, Accomplishment Planning Section.

Provides management with a system for reviewing water quality and sources for developing cleaner water. This system indentifies and tracks milestones as well as develops criteria for tasks to be accomplished by 1976.

Accomplishment reports on actions to achieve clean water milestones are submitted quarterly and annually to EPA Headquarters management. Reports list number of sources and quantity of of pollutants reduced (pollutant by parameter). This reporting system provides a more feasible method of evaluating than the previous existing system.

Plans are written establishing program objectives for priority areas. All waste sources from STORET are listed in a rank of severity. Water quality data for river basins are then listed, indicating all violations. A tactical solution is reached, indicating what quantity of pollutant has to be reduced to achieve a specific level of water quality. EPA tasks are shown by time and program element (monitoring, planning) for each source. A summary table is developed showing target dates for meeting goals. This manual system is currently under development.

ES-10065 GENERALIZED CATALOGING AND INQUIRY SYSTEM (GCIS) EPA Headquarters DEVELOPMENTAL 1972 AUTOMATED. Thorpe, Paul, Systems Analyst, Data Reporting Branch.

Will provide information stored in automated data files that contain data pertinent to water pollution control, from various governmental agencies.

A catalog of index files are produced upon which the GCIS is based. The catalog consists of a Directory File which contains entries for every source of information water pollution control. An inverted file contains the records or keys of source master records containing data items matching a specific value or value range category. In addition to the catalog, there is also provided an inquiry technique whereby the user may have access via terminal to the systems catalog without having to access, for example, the NEI source files. Through this technique, the user can utilize a variety of options, such as catalog dumps for certain data fields, count of IDs satisfying a given set of query equations, listings of all files or documents satisfying a set of query equations.

There are three phases of cataloging and inquiring: catalog generation phase, information search phase, document retrieval phase. For programs support the catalog generation phase: Translator, Extract, Utility Sort, and Inversion. Output from these is a Catalog Data Set. The information search phase includes a query validation function and a query language consisting of field relationship expressions, Boolean connectors and operation commands. The document retrieval phase uses the selected document IDs generated in the inquiry phase to access the pertinent source file and print the selected format of the answer records. This phase consists of three major steps: a Translator automatically writes a tailored program to extract and print the fields requested by the user; the program is compiled in COBOL; the resultant program is processed against the source file to print the required information. The Generalized Cataloging & Inquiry System will utilize the IBM 370/155 and be written in COBOL. Minimum core requirement will be 250,000 bytes with a 40 percent core overlay. There will be three application programs. The largest file will have 100,000 records of variable length up to 900 bytes per record. The environment will be batch, on-line, medium-speed printer, CRT, magnetic tape (for storage of information). The system will retrieve from such files as the NEI, Dun & Bradstreet, USGS River Flow File, Commercial Fisheries, Weather, NODC, NDA, Federal Activities, Oakridge National Laboratory, and Bureau of Outdoor Recreation.

ES-10066 WATER INVENTORY SYSTEM EPA Headquarters DEVELOPMENTAL 1973 AUTOMATED. Kent, George W., Chief, Water Quality Register Branch; Manning, Richard, Computer Programmer, Water Quality Register Branch.

Will facilitate monitoring the water quality status of municipal water supplies throughout the United States.

This developmental system will produce reports containing water analysis data by various geographic areas, population groups, and types of facilities. These reports will be used by the Water Quality Supply Division of EPA Headquarters and NERC, Cincinnati, to monitor the water qualities of municipal water supplies.

Input will be from EPA Form 18- Identification of Water Sample. Eight PL/1 application programs are planned utilizing 1,000 bytes of core on an IBM System 360/30 on line with an IBM 2780 DATA transmission terminal in Cincinnati, Ohio. There will be 40,000, 400-character records on the master file. **System Revised May 1973**

ES-10067 GENERAL POINT SOURCE FILE (GPSF) EPA Headquarters DEVELOPMENTAL 1972 AUTOMATED. Tutwiler, Clarence, Chief, Information Access Section.

Collects and analyzes data describing unique point sources of water pollution, discharge, and institutes data quality control procedures.

The General Point Source File (GPSF) enables the user to specify report information and format. A user can: select discharges according to discharge data conditions; sort discharges; select parameters for retrieval; produce various levels of the data; and design his own output format. Data will be taken from organization data systems such as STORET, RAPP, construction grants, and water quality, and the data is then validated, edited and placed in the GPSF Data Base.

GPSF consists of values arranged to describe unique point sources of pollution, Each value will be given a notation concerning the source and currentness of the data. Quality control within the file will be maintained by the accountability of the data source. No data will be allowed into the file unless it is under the planned and controlled data collection activity of a responsible program. System software now operational is: file creation programs; generalized output programs; edit and input program. The system consists of eight COBOL, PL/1, and ASSEMBLY application programs on IBM System 370/155 with a minimum core requirement of 110,000 bytes.

ES-10068 AERIAL MEASUREMENTS OF U.S. COASTAL ZONE EPA Headquarters DEVELOPMENTAL 1973 AUTOMATED. Thorpe, Paul, Systems Analyst, Data Reporting Branch.

Establishes a data base to enhance planning and enforcement actions by providing the project manager and the general public information (estuarine makeup, size and shape of the coastline, contours, etc.) as to the areas requiring clean-up action.

The periodic summary report for management purposes describes statistically the areas and lengths of coastlines, the conversion of geodetic data from State Plane Coordinates to a uniform system, and other quantitative information on the basis of which the project manager and other responsible federal/state agencies may take appropriate clean-up action.

The system is still in development: consequently, the entire processing sequence is not available at this writing. Generally, however, the information base consists of two packages: maps with overprint, and a management summary report. The contents of the report correspond to the data input into the various fields of the file. The programming will be done in COBOL and FORTRAN and the environment will be magnetic tape, on-line, medium-speed printer, IBM System 370/155 main frame, H. Dell Foster RSS-400 and 4CT-7, Univac 1710 keypunch and Calcomp 900 plotter.

ES-10069 BEACH CLOSURE INVENTORY EPA Headquarters DEVELOPMENTAL 1972 AUTOMATED. Thorpe, Paul, Systems Analyst, Data Reporting Branch.

Will show the impact of water pollution on recreational facilities by listing the number and extent of recreational beach areas closed by water pollution.

Reports will consist of a Beach Report which will list all the recreational beach areas closed by water pollution. Another report will be a Bibliography Report Directory which will provide the public with a reference of reports and publications pertaining to beach closures.

Data will be obtained from information maintained by the Department of Interior, Bureau of Outdoor Recreation, and Department of Parks and Recreation, and will be input by magnetic tape. The system will consist of 6 COBOL application programs on IBM System 370/155, with a minimum core requirement of 250,000 bytes. The system was converted to an IBM System 370/155 from a Burroughs B6700.

ES-10070 TECHNOLOGY TRANSFER DATA STORAGE AND RETRIEVAL SYSTEM EPA Headquarters OPERATIONAL 1972 AUTOMATED. Michel, Robert L., General Engineer, Evaluation and Resources Control Branch.

Records transfer of technology from research and development projects to waste water treatment production projects in order to evaluate the degree of new technology being utilized. The system provides the services necessary for input and retrieval of information entered on waste water treatment unit process inventory forms.

Monthly summary reports allow the Division of Municipal Waste Water Systems, the Regions, and the Office of Research and Development to determine the degree of research and development technology being utilized in current waste water treatment projects.

Regions supply specific technical descriptions on all of their active projects. This information is coded, input by punched card, verified and stored for retrieval, providing a base from which users may

determine the degree of new technology that is being utilized. The system interfaces with the monthly Project Register File, listing all project numbers and cost figures. A updated file can then be searched for projects with various combinations of unit processes in waste water treatment. The on-line digital system consists of 2 FORTRAN programs on an IBM System 370/155, with a minimum core of 126,000 bytes.

ES-10071 INDUSTRIAL IMPLEMENTATION FILE EPA Headquarters OPERATIONAL 1969 AUTOMATED. Pandolfi, Thomas, Systems Analyst, Monitoring and Survey Section.

Aids in monitoring state and federal schedules for the implementation of industrial waste treatment plans.

The implementation of waste treatment plans are presented in the form of printouts, and are used by EPA Regions and the Headquarters, EPA Enforcement Division, to enforce specific plant improvement for pollution abatement, and to list significant milestone dates for construction of industrial facilities to achieve a specific water-quality standard. Listed are the names and addresses of pertinent industries affected, states and river basins, and the type of pollution facility required along with milestone dates.

Data from inspection reports, NAPP applications, and planning data are supplied to the Regions. The data is subsequently screened for accuracy, and is then fed into Headquarters via communication terminals, where it is processed, edited and used to update the file. Reports are listed as required. Consisting of 6 application programs written in PL/1, the system operates on an IBM System 370/155 with a minimum core requirement of 250,000 bytes.

ES-10072 MUNICIPAL WATER AND SEWER BOND SALES SYSTEM EPA Headquarters OPERATIONAL 1956 AUTOMATED. Pandolfi, Thomas, Systems Analyst, Monitoring Survey Section.

Aids in measuring the economic costs associated with municipal water pollution abatement by listing municipal bond sales for water and sewer construction, by year and amount.

An initial report was generated from magnetic tape data purchased from the Mortgage Bankers Association. Input data is not collected by EPA. File is complete through 1971. Data is used to list by year and amount, all municipal bond sales for municipal water and sewer construction. Interest costs, maturity dates, sub and total amounts can be calculated to indicate historical costs of treatment plants, and then used to estimate construction grant allocations.

The data base from the magnetic tape is not being updated. The systems consists of 14 PL/1 application programs on IBM System 370/155 with a minimum core requirement of 150,000 bytes.

ES-10073 WATER QUALITY SURVEILLANCE NETWORK (NET) EPA Headquarters OPERATIONAL 1970 AUTOMATED. Kapinos, P. Paul, Sanitary Engineer, Monitoring and Information Branch; Hall, Marguerite L., Computer Specialist, Data Systems Branch.

Improves the efficiency of the STORET system by providing parameter and station index of long-term STORET stations for a quick reference.

No formal reports are produced. Information, retrieved by EPA regions and the Monitoring and Data Support Division is used as a parameter index for the STORET system. In addition, the maintenance cost information is used by EPA Headquarters to budget expenditures. Major informational elements are geographic location of stations, measured water quality parameters, annual costs, sensors used, and date station began operation.

A record is created when a region notifies the Division, in an unformatted report, that a STORET station has been established. Pertinent information is entered on a Division form, Inventory of Water Quality Station. These forms are sent to Head Data Corporation and keyed on an IBM MTST. An edit listing is made and sent to the Division for corrections, which are keyed and transcribed onto a computer-readable magnetic tape for input into the Comnet Time Sharing system. The file contains 1,000 records, averaging 500 bytes per record. STIMS-RECON, a generalized software package written in ASSEMBLY, is used for data entry and retrieval. No specialized applications programs are used. The system requires 180,000 bytes of core on an IBM System 360/65/50 and is part of the ENVIRON system.

ES-10074 SPILL INFORMATION RETRIEVAL SYSTEM (OHM-SIRS) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Moein, George J., Oceanographer, Oil and Hazardous Materials Division; Hall, Marguerite L., Computer Specialist, Data Systems Branch.

Seeks to prevent oil and hazardous material spills by providing historic information on all reported spill incidents to aid in informing other government agencies in enforcement and prevention measures.

No formal reports are produced. Information is retrieved as required via remote terminals by the Oil and Hazardous Materials Division, EPA regional offices, the Department of the Interior and the general public. Information is used primarily for analysis and reference to develop preventive programs and regulations for spill incidents.

As spills occur, information is submitted on a spill reporting form to the Oil and Hazardous Materials Division by the EPA region in which the spill occurred. Report data is coded, sent to Head Corporation to be keyed on an IBM MTST, and copies are returned to the division for editing. After editing, copies are returned to Head Corporation where the MTST tape is corrected, converted to machine-readable magnetic tape, and stored on a disk in the Comnet Time Sharing system. System uses STIMS/RECON software written in ASSEMBLY language with no specific application programs. File contains 4,000 records averaging 1,000 bytes per record and is growing rapidly. STIMS/RECON software requires 180,000 bytes of core on an IBM System 360/65/50. System is part of the ENVIRON system.

ES-10075 TECHNICAL ASSISTANCE DATA SYSTEM (OHM-TADS) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Moein, George J., Oceanographer Oil and Hazardous Materials Branch; Hall, Marguerite L., Computer Specialist, Data Systems Branch.

Seeks to reduce the effects of oil and hazardous material spills by providing information rapidly on containment procedures, spill characteristics, and a wide range of potential environmental problems to EPA and other government agencies.

No formal reports are produced. Output consists of information to EPA regions via remote terminals as required for spill countermeasures. System also provides information for enforcement and research activities in developing anti-spill programs. Major informational elements are spill characteristics and effects, compound identification, treatment method, and types of organizations to be notified.

Records were compiled on more than 850 hazardous materials from a variety of sources. Data was keyed using an IBM MTST, edited, corrected, converted to machine-acceptable magnetic tape, and entered into the Comnet Time Sharing system. No updates have been made on the existing data. Plans are underway to expand the data base to cover more than 2000 hazardous materials. System uses STIMS/RECON generalized software written in Assembly to provide search and retrieval capabilities. Search procedures are described in Head Data Central's publication, "User's Guide for the Environmental Protection Agency." System requires 180,000 bytes of core on an IBM System 360/65/50. System is part of the ENVIRON system.

ES-10076 NATIONAL ESTUARINE INVENTORY (NEI) EPA Headquarters OPERATIONAL 1969 AUTOMATED. Thorpe, Paul, Systems Analyst, Data Reporting Branch.

Compiles information on the coastal zones of the United States to identify present and potential users, and the extent of pollution damage.

The function of NEI is to serve as a data repository for all information without regard for its individual characteristics, volume of entries, or special processing needs. It operates on a module design concept which allows complete flexibility in data processing. The data base consists of 200 million items. This is a combined automated and manual system. It is scheduled to become a static file of information on coastal zones current as of 1965. It will serve as

a management data base to identify information needs for EPA special studies (beach closures, coastal zone measurements, shellfish bed closures, dumping, and pesticides), and state and local EPA-sponsored pilot projects.

New information is cataloged, validation criteria are determined for each data element, update characteristics are determined, and a standard print format is designed. The necessary sub-routines are then written into the existing validation, update and report generation programs, and the data is incorporated as a functional area of information within the system. The system consists of 6 application programs on an IBM System 370/155 with a minimum core requirement of 250,000 bytes.

ES-10077 SEWAGE TREATMENT PLANT OPERATION AND MAINTENANCE DATA RETRIEVAL EPA Headquarters OPERATIONAL 1964 AUTOMATED. Michel, Robert L., General Engineer, Evaluation and Resource Branch.

Provides information on the results of audits of municipal wastewater plants, and determines which plants do not meet design efficiency along with the cause of deficiency.

Operation and maintenance audits are performed on municipal wastewater treatment plants after at least one year of operation. Information obtained during the audit is entered on EPA Form 7500-5. After initial audit, each plant is inspected by the state once a year for three years. The state forwards a list to EPA each January citing the plants which do not attain 95% of Biological Oxygen Demand. A report is issued on demand for use by EPA Headquarters, Congress, universities, and the NERC at Corvallis, Oregon.

After completion of EPA Forms 7500-5 by a State or Region, it is forwarded to the Evaluation and Resource Control Branch, Municipal Waste Water Systems Division, EPA Headquarters, where it is edited and input to the Battelle Labs STPOS system. Retrieval from the file is based on a proprietary keyword search program, BASIS. The system consists of one application program on a CDC 6400 computer, requiring a minimum of 45,000 bytes of core.

ES-10078 NATIONAL - REGIONAL WATER - LAND RESOURCES ASSESSMENT (1975) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Hugo, Joseph, Planning Officer, Planning and Standards Branch.

Provides information on municipal water use, municipal waste, and industrial waste so that the Water Resources Council may determine policy.

An Assessment Data Report is output as required for analysis by the Water Planning Division for the preparation of recommendations to the Water Resources Council. The Council subsequently performs planning procedures, and prepares policy and strategy for the assessment of water use on a national and regional basis for 1975.

STORET and RAPP Data Files are accessed to obtain required retrievals of water use data. Assessment studies are performed using aggregate water use data. National policy and strategy is then recommended to the Water Resources Council. The system consists of 3 PL/1 application programs on an IBM System 370/155 with a minimum core requirement of 80,000 bytes.

ES-10079 INTERSTATE CARRIER WATER SUPPLY INVENTORY (ICWS) EPA Headquarters OPERATIONAL 1963 AUTOMATED. Kent, George W., Chief, Water Quality Register Branch; Manning, Richard, Computer Programmer, Water Quality Register Branch.

Assists in monitoring the compliance status of interstate carrier water supplies by maintaining a data base of chemical analysis and identification of supplies.

Two quarterly reports listing water sources and their corresponding chemical analysis are produced by the system. The Regions, the Water Supply Division, and NERC, Cincinnati use the reports to maintain a historic record and to check on the quality status of the water supplies. They show source of supply, state and joint survey and chemical analysis data.

Input is received quarterly from the regions on EPA Form 162, Report on Water Supply Used on Interstate Carriers. This data is punched and input to an IBM System 360/30 at NERC, Cincinnati. Fifteen application programs utilize 3,000 bytes of core. There are 650, 250-character records on the master file. Retrievals of data can also be made on-line via an IBM 2780 data transmission terminal.

ES-10080 CHARACTERSTICS OF WATER SUPPLY SYSTEMS (CWSSI) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Kent, George W., Chief, Water Quality Register Branch; Manning, Richard, Computer Programmer, Water Quality Register Branch.

Supports water quality monitoring by maintaining a water analysis data base of various community water supplies.

Statistical analysis reports are produced on an as needed basis for NERC, Cincinnati. Water quality data maintained on each sample includes turbidity, color, odor and total dissolved solids of various chemical composition.

Input comes via EPA Form 6 (CIN 7-71) from regional offices and labs on an as-needed basis. It is entered on-line using an IBM System 360/30 at NERC, Cincinnati. There are over 125 PL/1 application programs which use an average of 1,000 bytes of core. There are 9,200, 560-character records on the file.

ES-10081 INDUSTRIAL WASTE LITERATURE FILE (IWES) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Hyland, John, Deputy Chief, Engineering Science Staff; Hall, Marguerite L., Computer Specialist, Management Information & Data Systems Div.

Seeks to improve manufacture and mining waste water treatment and control by disseminating abstracts and report information on selected waste water publications to EPA, NERCs, regional and headquarters engineering sciences staff, and the general public.

No reports are produced. Output is information retrieved via terminal from EPA Headquarters and Regions. Major informational elements include article title, author and date, publication name, full text or abstract of the article or publication.

Articles and reports are reviewed and selected by the Effluent Guidelines Divisions staff, formatted, and sent to Mead Data Central Inc , for keypunching. Edited listings are returned to the division for correction. Corrections are made on the listing and returned to Mead for input via remote terminal to the Comnet Time Sharing facilities. File presently contains 1200 records, averaging approximately 2000 characters per record and varying greatly from one record to another. No specialized application programs are used by the system. STIMS/RECON, written in ASSEMBLY, is used for searches and retrievals from remote terminals using keywords, author and publication title. System requires 180,000 bytes of core storage on an IBM System 360/65/50. System is part of the ENVIRONS system.

ES-10094 BIBLIOGRAPHY FILE EPA Headquarters OPERATIONAL 1972 AUTOMATED. Dovel, John, Chief, Publications Branch; Palikan, John M., Computer Systems Analyst, Management Information & Data Systems Div.

Seeks to improve research in water quality area by speeding tecnology transfer through the dissemination of information on available EPA-sponsored water quality research reports.

Two reports are produced by the system. One is a quarterly bibliography of all EPA-sponsored reports on water quality research. It is distributed throughout EPA, other government agencies, and the general public. The other report is a monthly announcement bulletin on all new system acquisitions and is sent to over 15,000 individuals in EPA, government, and the general public. Major informational elements are: report title, author, number, price, and source for purchase.

A record is created upon receipt of an EPA-sponsored report by the Research Information Division. Relevant data are extracted from the technical report standard title page accompanying each report and an initial entry is keyed into Bowne's Time Sharing system via an IBM 2741 remote terminal. Upon receipt of a National Technical Information Service notification of a publications entry into the NTIS system, an entry is keyed into the system showing the NTIS number and where the document can be obtained. If a Government Printing Notice of overprinting for sale is received, an entry to this effect is entered for a

particular publication. No records are being purged from the files. File contains 700 records, averaging 200 bytes per record, WORD ONE, a generalized software package written in ASSEMBLY is used. The system operates on an IBM System 360/50.

ES-10104 BASIN PLANNING SYSTEM EPA Region 2, New York OPERATIONAL 1970 AUTOMATED. Durfor, Charles N., Chief, Water Programs Branch.

Aids in monitoring and evaluating interim water basin planning systems of New York and New Jersey to improve water quality planning.

All reports are used by the Air and Water Programs Division to review state basin plans for improving water quality. The New York and New Jersey interim basin plans indicate the status of water quality planning for each county in the state. The county sewage studies list the specific plans for each county. Reports are output monthly or as required, and are used as reference material when new plans are received.

Planning information from the state interim basin plans and the county sewage data is extracted, punched cards are prepared, and the information is read onto disk whenever a retrieval is required. The system consists of 5 FORTRAN application programs on an IBM 1130 with a minimum core requirement of 3900 words.

ES-10115 DECIMAL INPUT EDIT (DIPEDIT) EPA Region 4, Atlanta OPERATIONAL 1972 AUTOMATED. Hagan, John, Chief, Pollution Control Systems and Analysis Branch; Barnwell, T., Senior Programmer, Pollution Control Systems and Analysis Branch.

Provides an on-line edit capability while processing STORET data, and reformats STORET outputs into a report for S&E engineers.

The output consists of two types of reports: (1) EDIT, which consists of a card sequence number and card image with error messages; (2) DATA, which lists station number, date and time and 10 parameters per line (up to 3 lines). Legitimately missing values and those due to keypunch errors are indicated. The report provides a basis for making necessary corrections.

Keypunch field data sheets in DIP formats. Load the data cards and IEBGENER program into LST disk via a medium speed terminal or magnetic tape. Execute the DIPEDIT Program via LST, and correct errors discovered. Store valid data in DIPSTORE. The current program uses the DATA 100; software is written in PL/1 and has a minimum core requirement of 100,000 bytes. After the corrections have been made, the card is transmitted to the STORET files according to STORET procedures as prescribed by the EPA Headquarters.

ES-10126 COUNTY POPLULATION AND DENSITY EPA Region 6, Dallas OPERATIONAL 1970 AUTOMATED. Greene, W., Director, Management Division; White, D., Chief, Technical and Administrative Data Support Branch.

Provides statistical profiles of population density in select river basin areas to assist the Regional staff in determining location and degree of additional planning resources in terms of manpower efforts (studies) and funds.

The information is based on yearly census figures of a given decade, showing population growth and density of geographical areas for each year as well as cumulatively for the ten-year span. This information is used to assist the Regional staff in determining which river basins should receive priority consideration in terms of study efforts devoted to them or in terms of funds to be allocated for specific environmental goals.

The program was originally written for the IBM 1130, but will be re-written to run on the IBM System 370/155. Information is input into the system via punched cards and retrievals may be made on-line or by printer. Since the program will be re-written, the specific processing steps are unknown at this time.

ES-10128 OPERATIONS AND MAINTENANCE SYSTEM EPA Region 6, Dallas OPERATIONAL 1972 AUTOMATED. Ginn, W. H., Chief, Field Operations Branch; Cannaday, J., Senior Programmer, Technical and Administrative Support Branch.

Aids Field Operation Branch in its inspection program by providing a chronological list of inspection dates to be made at completed facilities to ensure conformity to operating and maintenance procedures specified by grant application.

The report completed yearly for three consecutive years, contains information relative to the needs of an Operations and Maintenance Manual; due dates of inspections and their follow-ups by state, project number, county, major/minor basin and date the grant offer was made; and a summary of final inspections made with their follow-ups.

A standard form is used to follow up operations and maintenance functions. Information is transcribed onto coding sheets and input into the computer where the following broad sequence occurs: the final inspection date derived on the Construction Grants Program up-dates the Operations and Maintenance File; the O&M Manual Report is run against Construction Grants File to determine whether a manual is required; the O&M file is updated and selected retrievals made from it. The program is written in COBOL and uses 74,000 core minimum on the IBM System 370/155; two application programs are utilized. The largest file contains 2000 records of 200 bytes each. The environment is batch, keyboard, on-line, and medium speed printer.

ES-10131 LABORATORY MANAGEMENT SYSTEM (LAM) EPA Region 7, Kansas City OPERATIONAL 1972 AUTOMATED. Hensly, Charles, Chemist, Technical Support Branch; Webster, Daniel, Computer Specialist, Support Service Branch.

Aids the Technical Support Branch to exercise control over the analysis of water samples in EPA's Region 7 water analysis laboratory by providing information on the status of any sample being analyzed. Also puts the analytical data into STORET format for entry into the STORET system.

Produces a weekly status report that includes a list of all water samples and the analytical results of the parameters analyzed. Used by the Surveillance and Analysis Division to check on the status of all samples being analyzed by the laboratory. A station profile report is produced for any station upon request. This report is used when intensive water sampling is being made at a station over a short period of time and also by the Surveillance and Analysis Division to provide a profile of analytical results in a station, primarily when enforcement actions are comtemplated. Major informational elements are sample laboratory number; STORET station number; date and time sample gathered; parameter codes and analysis results; station parameters (air temperature, etc.); date sample received by laboratory; and date of parameter analysis and composite data on sampling methodology.

Data is input into the system from a field sheet that contains field parameters, e.g., temperature; a laboratory log (date sample received, etc.); and a bench sheet, listing results of analysis for all parameters analyzed without regard to order of samples. Each sheet produces one of three types of punched cards that are used to form three files. Records are released and stripped from the files in accordance with the laboratory manager's requirements. At this time, sample results are put into STORET format and a punched card is produced. Files consist of 16,320 records, averaging 20 bytes per record. System uses three application programs written in FORTRAN and requires 32,000 bytes of core for operation on an IBM 1130. **System Revised May 1973**

ES-10132 FEDERAL FACILITIES INVENTORY SYSTEM EPA Region 7, Kansas City OPERATIONAL 1972 AUTOMATED. Koke, Robert J., Sanitary Engineer, Program Support Branch; Gonzales, Jesse J., Technical Infomation Specialist, Monitoring Branch.

Enables the Program Support Branch to respond to all congressional and public queries on pollution effects of federal facilities by providing a ready reference of all federal facilities in Region 7.

One report is produced, which consists of a computer printout listing all federal facilities in a

format identical with that of the municipal waste needs facilities inventory in the STORET system. Report is used as a reference to answer all queries on federal and the pollutant impact. Also used to determine the effects of new water quality standards on federal facilities and provides information on technology transfer among facilities. Major informational elements are federal facility name, state, county, congressional district, census population, river basin, latitude/longitude, outfall distance from shore and depth, facility technical data, and, in a few cases, waste facility needs data.

Initially, 200 records were created by extracting relevant information from file folders maintained by Region 7 on all federal facilities within the region. Data was coded onto a municipal waste facilities coding sheet used in the STORET system. Data was keypunched, verified, and entered into the Boeing Time Sharing system via a DATEL 30. Each record was coded with a 99999 to distinguish these facilities from the municipal subsystem in STORET. Records will be updated by information obtained from on-site visits by EPA employees and from a report submitted to the Office of Management and Budget on all projects, including water treatment facilities by federal agencies. STORET system software used for the system requires 130,000 bytes of core on Boeing's IBM System 370/155.

ES-10141 MAJOR POINT SOURCE AND EFFLUENT LOADS-SOUTH PLATTE RIVER EPA Region 8, Denver OPERATIONAL 1972 AUTOMATED. Sotiros, Richard, General Engineer, Permits Branch; Entzminger, Thomas A., Chief, Computer Systems Branch.

Monitors water quality standards established for South Platte River Basin Plan, and determines pollution sources and effluent loads.

This periodic report details the names of industries and their pollutant effluence that enters the river. The entry points of pollutants are noted along with river flow. Parameteric data; including flow, BOD, PH, temperature, TDS, TSS, NH3, TOTP, FEC TOT, BAC, oil, grease and TOX MET: priority numbers, and geographical locations (reaches) is produced on an as needed basis. The Processing Section of the Enforcement Division utilizes the data to monitor water quality benchmarks.

Water sample analysis data is input via card. Consisting of one application program, the system utilizes 2,000 bytes of core on IBM System 370/155 with a DATA 100. There are 200 records on the file. **System Revised May 1973**

ES-10142 FEDERAL FACILITIES STORAGE AND RETRIEVAL SYSTEM EPA Region 8, Denver DEVELOPMENTAL 1972 AUTOMATED. Yorke, C. Alvin, Chief, Federal Activities Section; Entzminger, Thomas A., Chief, Computer Systems Branch.

Will provide a control mechanism for monitoring compliance by federal facilities in Region 8 to EPA regulations governing air, water, solid waste pollution.

On demand, reports for each federal facility in Region 8 are produced reflecting an inventory of current pollution treatment facilities and treatment requirements. These reports identify facility locations and controls governing air and water pollution and solid waste disposal. The report lists requirements for bringing facilities in line with compliance standards. The water pollution control section of the report shows treatment, daily flow, influent and effluent, BOD,TOT,PH, and TSS. The air pollution control section lists all contaminants. The solid waste disposal section describes the site, including facts on type of waste, size, incineration characteristics, and method of collection.

This developmental system will first enter all in-house pollution monitoring data currently maintained by the Federal Activities Section and the Solid Waste Branch on federal facilities. This initial data base will be updated on an irregular basis by EPA on-site collections and studies at the facility or information voluntarily supplied by the facilities. Consisting of three application programs written in FORTRAN and PL/1, this system is planned to operate on the IBM System 370/155 at Boeing Computer Services, with a DATA 100 in Denver, using a minimum of 10,000 bytes of core.

ES-10143 BASIN PLANNING STATUS SYSTEM EPA Region 8, Denver DEVELOPMENTAL 1972 AUTOMATED. Hartman, George R., Sanitary Engineer, Planning Section; Entzminger, Thomas A., Chief, Computer Services Branch.

Will provide administrative control and dissemination of the status of current basin water quality plans in Region 8 and to EPA Headquarters in approval of basin plan grant awards.

The Basin Planning Status Report, is prepared as required, but at least monthly. This report identifies the plan by name, county, river, STORET basin, and type of plan, such as, metro, region, or river basin and gives dates submitted, returned, and approved by EPA. EPA and the Region 8 states water pollution control agencies use this information to answer inquiries on the status of the plan.

Data elements of this developmental system will be entered when the basin plan is submitted to EPA Region 8 by punched card. The file will be updated as actions occur. This system takes a minimum of 10,000 bytes of core with the file size estimated at 150-200 records. It is programmed in PL/1 for use on the Boeing Computer Services, Inc. IBM System 370/155 with a DATA 100 in Denver.

ES-10159 DISSOLVED GAS INFORMATION SYSTEM (DIGIS) EPA Region 10, Seattle OPERATIONAL 1972 AUTOMATED. Rulifson, Robert L., Fishery Biologist, Land and Water Section; Riemann, Robert W., Computer Specialist, Data Systems Branch.

Enables the Division of Air and Water Programs to monitor and evaluate the dissolved gas in Region 10 water to avoid fish kills and disease caused by gas. It is also used to evaluate the saturometer, a newly developed instrument used to measure dissolved gas.

A listing is produced on an as-required basis. It lists water sample results by sampling station and sample identification number and includes such data as the date, time, temperature, and elevation of the sample. The results are used primarily by the Water Programs Division to measure and monitor dissolved gas throughout Region 10 and to compare the results of different measuring techniques in the development of new measuring instruments.

Input data is obtained from coded data sheets in the STORET format when a reading has been taken for checking the dissolved gas content. These data sheets are keypunched and entered via an IBM 2780 into Boeing's Computer System for storage. The system contains about 2,000 records of 80 bytes each. An IBM 2741 terminal is used to access the system with nine application programs written in FORTRAN. Both a line printer and the IBM 2741 are used for listing system output. A minimum of 100,000 bytes of core is required for the systems operation. Application programs calculate the actual gas content from the sample readings as well as generate the report itself.

ES-10181 WATER QUALITY MONITORING NETWORK NERC, Cincinnati OPERATIONAL 1970 AUTOMATED. Metink, A. F., Chief, Instrumentation Development Activities.

Tests the feasibility of acquiring water quality data from sensor probes for automated processing via teletype lines connected to a minicomputer.

One report is planned and will concern selected water quality parameters and will be utilized in preparation of technical papers and for discussions and displays.

Currently, two station probes (one in the Big Miami River and one in the Little Miami River in Ohio) provide data. The information is then stored in the minicomputer, logged and compared with NASA data which is obtained in a parallel experiment.

ES-10210 SYSTEM FOR CONTROL AND RETRIEVAL OF WHOLE AND EDITED DATA (SCREWED) EPA Lab, College, AK OPERATIONAL 1972 AUTOMATED. Angelo, Michael A., Chemist, Arctic Environmental Research Laboratory, Alaska.

Aids in administrative control over the processing of water sample analysis by providing information on the status of the analysis performed.

Reference listings provide a current list of all samples and data inputs. An output listing shows errors and disposition of each input card. A cost use listing summarizes system usage and billing. A lab use

listing indicates the number parameters analyzed. Output listings also include all data, including quality control information, for each sample submitted. Matched information is placed on magnetic tape for subsequent input to retrieval routines. Retrieval may be delimited by date, station, sample number, analysis or USGS map number. Outputs include statistical summaries, transfer to scratch tape, and two types of print listings. Backup files of all card, tape and disk files are provided. Ability to cross-reference station identification codes is provided. Input data cards are checked to insure validity of the analyst's computations. Reduction of instrumental data is accomplished via a second-degree regression analysis, and a correlation ratio is also provided. The flow of information is similar to the SWAVES system (ES-10214). The system has been expanded to include the ability to handle data for micro and macro biology, air pollution, alphanumeric data entries, and geographical and meteorological information. Internally maintained files include 8580 21-word samples, 7900 11-word data records, 8800 21-word internal references, and private core-image and relocatable libraries.

STORET data cards are automatically punched from the system after all analytical results are merged for each sample analyzed. The system consists of 41 FORTRAN and ASSEMBLY application programs on an IBM System 360/40 with minimum core requirement of 100,000 bytes. **System Revised May 1973**

ES-10211 AUTOMATED NATIONAL SENSOR WORK PLATFORM FOR ENVIRONMENTAL RESEARCH (ANSWER) EPA Lab, West Kingston, RI DEVELOPMENTAL 1972 AUTOMATED. Phelps, Donald E., Chief, Environmental Studies Branch; Beck, Allan, Research Aquatic Biologist, National Marine Water Quality Laboratory.

Will aid water pollution monitoring programs in tidal waters by continually measuring water temperature, alkalinity/acidity, and dissolved oxygen.

System is currently in a test stage to measure the accuracy of the measuring instrument and various methods by which it may be used. System does provide information to various models.

This closed-loop, real-time sensor system transmits water condition data to a computer where they are verified by pairs comparison. Valid data are used to compute statistics on mean, maximum, standard deviation and time of occurrence. The system uses the NOVA 1220, the ASR 33, and specially instrumented buoys. Minimum core requirement for the largest program is 12,000 bytes.

ES-10213 STORAGE SCHEME FOR BIOLOGICAL DATA NERC, Corvallis DEVELOPMENTAL 1972 AUTOMATED. Byram, K., Computer Systems Analyst, Consolidated Laboratory Services.

Provides a computer-assisted data bank of biological information needed for trend analysis, sampling, and base reference to establish continuity of research.

The output is information from an extensive data base of of biological statistics. It is used to assure continuity over an extended period of research subject to interruption.

No processing steps have as yet been specified.

ES-10216 SAMPLE HANDLING & VERIFICATION SYSTEM (SHAVES) NERC, Corvallis OPERATIONAL 1967 AUTOMATED. Byram, K., Computer System Analyst, Consolidated Laboratory Services.

Aids in analyzing water samples by performing routine clerical tasks associated with an analytical service laboratory by assigning work, generating source documents, validity checking, production monitoring, reporting of results, and storing of results.

SHAVES produces a number of reports intended primarily for researchers. These reports point out errors, unmatched data cards, and comparison errors. They indicate work assignments, summarize job results, list work backlog, and inform the laboratory manager of the amount of turn-around time on various tasks. They tabulate monthly costs of sample collection, prepare STORET input cards, and list the samples to be discarded. A backlog report is also produced for the laboratory manager as an aid in production monitoring. All the SHAVES reports, except Form 15, are produced weekly; the latter is produced daily.

The project leader submits a form listing the samples he plans to take and specifying the constituents to be analyzed. At the time of sampling, collection information is indicated on the sample data sheet. When the samples arrive at the laboratory, information from the analysis required forms is teletyped into the computer, which makes a record of the request, and prints the analytical bench sheets. These sheets then provide a medium on which the results of the analyses are recorded. As the analyses are completed, the bench sheets are keypunched, along with the sample data sheets, and the resulting cards input to the computer. The computer performs several functions. First, it checks the sample data for keypunch errors, stores them, and allocates space for forthcoming analytical results. Second, it verifies the mathematical accuracy of the analytical result, using the raw data from the bench sheets. Third, the computer sorts and stores all the data, matching analtyical, sampling, and request information. It flags results for which there is no sampling information or no request, and those which are unexplainably duplicated. Fourth, when possible, it compares results for different constituents on the same sample to insure that the data is chemically consistent. Fifth, it prints a listing of results for the investigator who arranged the sampling, omitting those which were in error. Sixth, on request, it punches cards compatible with the STORET system for results which are correct. Seventh, it keeps track of which requests remain unfilled, itemizing the analytical backlog for each analysis. It provides the laboratory manager with summary information indicating how far behind the lab is in performing analyses for each constituent. Finally, it lists those samples which can be disposed of because all the analyses have been completed. The system utilizes a CDC 3300 with a DATA 100 remote. The software is written in FORTRAN and ASSEMBLY. The minimum core requirement is 65,000 bytes; the largest file has 40,000 records of 400 bytes each. There are 20 application programs. The environment is batch, on-line, keyboard.

ES-10218 ENVIRONMENTAL DATA EVALUATION SYSTEM (EDES) EPA Lab, Ada, OK OPERATIONAL 1972 AUTOMATED. Kingery, J., Mathematical Statistician, Robert S. Kerr Water Research Center.

Aids researchers in analyzing STORET and related data as well as check for data validity by providing reformatted STORET data and various automated routines for producing statistical frequency distributions and edit checks.

No formal reports are produced. Output mainly consists of correcting data and displaying data for statistical analysis for laboratory researchers.

Data is extracted from the STORET system and stored on the systems disks. Data is then locally manipulated by four FORTRAN programs. Punch cards on all data are maintained as backup. The system operates on an IBM 1130 requiring a minimum core of 16,000 bytes. **System Revised May 1973**

ES-10220 DATA ACQUISITION FOR AQUATIC ECOSYSTEM SIMULATOR EPA Lab, Athens, GA DEVELOPMENTAL 1972 AUTOMATED. Sanders, Walter M., Chief, Pollution Fate Research Program; Cline, D. M., Electronics Engineer, Southeast Water Laboratory.

Aids basic research on aquatic ecosystems by collecting data on climatological conditions associated with a real life simulation project of micro-organisms.

No formal reports are produced. Data is collected and stored for further analysis to determine the effect of climatic conditions on micro-organism growth. Ultimate goal of the analysis is to specify causal relationships in mathematical terms.

System uses a PDP-8E consisting of a CPU, mag. tape, disk. A D/A unit performs data scaling and conversion after acquisition by the Aquatic Ecosystem Simulator. It also performs some data analysis and reduction. For these functions, minimum core requirement is 4,000. The number of application programs is 13, and the size of the largest file is 2,000 records of variable length. The bulk of the data analysis and reduction is performed using an IBM System 360/65 and an IBM System 370/155. For these computers, the minimum core requirement is 100,000

bytes. The computing and data processing environment is keyboard, CRT, sensor, batch, on-line, real-time, digital, analog, medium-speed printer, and plotter.

ES-10221 MASS SPECTRAL IDENTIFICATION (SEWL3P) EPA Laboratory, Athens, GA OPERATIONAL 1971 AUTOMATED. McGuire, John, Chief, Chromatography and Mass Spectrometry Section.

Aids in research, surveillance, and monitoring in identifying chemical compounds by utilizing mass spectral identification system to arrive at a rapid qualitative identification of pollutants in given samples.

System produces a report listing compounds identified in the pollutant mixtures. Identifications are ordered by the goodness-of-fit. These reports, describing the compound and measure of best fit, are further analyzed by EPA laboratories to provide a basis for further action in the enforcement field or further study of a problem area.

Output of gas chromatograph/mass spectrometer scan of unknown pollutant mixture is transmitted to a central data bank at the Battelle Memorial Institute. The chromatograph sequence is first processed in an interactive mode by PDP/8. Spectra matching is performed by a CDC 6400 against reference spectra. Best matches for each spectrum are stored at Battelle and are transmitted to the requestor submitting the spectrum. Information thus obtained is used in studies or to support EPA actions. The EPA-funded Battelle system uses the PDP 8/CDC 6400 combination and the KSR 33 terminal. There are approximately 11,000 spectra in the data base, which is being expanded on a continuous basis. The PDP 8 utilizes four application programs. The CDC 6400 uses 44,000 bytes of core for the largest program. **System Revised May 1973**

ES-10223 PROCESS CONTROL SYSTEM FOR ADVANCED WASTEWATER TREATMENT EPA DC Pilot Plant DEVELOPMENTAL 1972 AUTOMATED. Yarrington, Robert, Program and Design Engineer, Department of Environmental Services, DC; Schuk, Walter W., Electronics Technician, Blue Plains Field Site.

Serves as a research tool in developing control algorithms and programs for advanced waste water treatment systems.

The reports are output every 10 minutes, listing the status and recording the readings from each of the sensors in the process control system. A malfunction report is generated for use by the process control operator whenever a malfunction in the system occurs.

Sensors are installed in all significant locations of the treatment process. Process data is acquired from these sensors, and data is compiled. Output control signals are generated and fed into the computer. This is a continuous process. There is a periodic (10-minute) printout of process data. When a malfuntion occurs, a process warning is printed out for the operators.

ES-10237 STATE PROGRAM PLANNING SYSTEM EPA Headquarters OPERATIONAL 1970 MANUAL. Kussman, Robert E., Staff Sanitary Engineer, State Programs Branch.

Aids evaluation of each state's water pollution control programs. Efforts and status of programs in each state and interstate agency are compared and program information exchanged.

A "Digest of Fiscal Year XX State Programs" is published annually and issued by EPA Headquarters. State and interstate water pollution control plans and actual performance are compared. The digest also shows expected results of planned activities, program authorization, organization and resources, and program administration.

States and territories and 6 interstate agencies submit program plans via the Regions for approval prior to submission to EPA Headquarters.

ES-10241 WATER QUALITY STANDARDS EPA Headquarters OPERATIONAL 1971 MANUAL. Sabock, David, Economist, Planning and Standards Branch.

Provides to EPA Headquarters and the regions the various individual state water quality standards on microfiche for analyses and reference.

Water Quality Standards have three components: numerical and narrative criteria, applied to specific stream use classifications; and an antidegradation statement.

Water Quality Standards are established by States, and then reviewed for approval by region. Upon acceptance, they are relayed to Headquarters for formatting and microfiching. One copy of the resultant microfilm is sent to each region. **System Revised May 1973*

ES-10259 WHEELING WATER LABORATORY ANALYSIS SYSTEM EPA Region 3, Philadelphia OPERATIONAL 1968 MANUAL. Parker, Larry A., Chief, Laboratory Support Group; Lorenzetti, Ralph, Staff Sanitary Engineer.

Maintains analysis records of chemical and biological content of water samples (2000 per year) taken from rivers and streams in the Ohio River Basin. Records data monitored at various points in the Basin.

Data required for STORET input is extracted and put on coding sheets. Enforcement data put in reports for enforcement action. STORET system can be queried by universities and consultants for reports which assist in their research and studies.

Sample taken by field operations staff, and local conditions are recorded. Analyses performed in chemical and biological labs. Bench data cards are prepared and data transferred to lab request forms and work books. Data then transferred to coding sheets for keypunch, and input to STORET. **System Revised May 1973**

ES-10260 ANNAPOLIS FIELD OFFICE WATER LABORATORY ANALYSIS SYSTEM EPA Region 3, Philadelphia OPERATIONAL 1968 MANUAL. Donnelly, Daniel, Chemical Engineer, Annapolis Field Office.

Analyses water samples taken from selected streams, rivers, and bays, for chemical and biological properties, to determine amounts of pollutants for enforcement, STORET input and studies.

Water analyses result in enforcement reports, and coding sheets for STORET input. Special studies are also prepared on subjects as: "Water Quality Study of the Rock Creek Watershed", for planning water improvement actions by local, state and federal agencies.

Field operations staff takes water samples from streams, rivers and bays. Enforcement staff takes samples from selected points. Analysis is performed and cards are filled out, listing chemical and biological constituents. Coding sheets are completed for STORET input.

ES-10265 EPA ENGINEERING SUMMARY EPA Region 6, Dallas OPERATIONAL 1972 MANUAL. Guiterrez, M., Chief, Programs Support Staff.

Provides the Office of Grants Coordination with the capability for determining performance loading conditions of various water treatment plants prior to inspection and grants award.

Reports are produced describing the performance of certain wastewater treatment plants prior to grants award. Report information describes existing facilities, biological processes taking place, chemical treatment in use and solids handling and disposal when the grant application was made.

EPA Form 7550-1(7-72), Wastewater Treatment Unit Process Inventory, is mailed to EPA Headquarters weekly. Output from the above is a two-fold Applied Technology Report on municipal wastewater treatment plants: one gives summary statistical data on plant grant status, type, plant design flow existing facilities, biological processes in effect, population equivalent, future plans for the facility, effluent discharge, design flow, estimated cost, design year, etc. The other gives a listing by project number, region, grant applicant, project name, status (planned, preliminary, plans, awarded), date grant offer was made, type (new, expanded, upgraded), and estimated cost in dollars. A detailed report is filled out according to the Summary of Engineering Information outline. A manual analysis is made of the data available in the Engineering Summary, the printouts on construction grants regarding costs, and the information contained in the Applied Technology Report available from headquarters and produced as a result of the weekly submission of Form 7550-1. This

analysis is the Program Accomplishment Report.

ES-10275 WATER SUPPLIES USED ON INTERSTATE CARRIER SYSTEM EPA Region 7, Kansas City OPERATIONAL 1972 MANUAL. Olson, Otmar O., Chief, Water Supply Branch.

Aids the Water Supply Branch to exercise administrative control over the inspection process associated with water supplies used on interstate carriers. Also provides an information service to state officials and the general public on these water supplies.

No formal reports are produced. Output provides annually action and survey dates on water supplies to appropriate state officials. The system also acts as a source of reference on inquiries concerning water supplies. In addition, branch personnel rely on the system for input on work schedule development. Major informational elements are the name of the water supply facility; total population served; status of supply (provisional or approved) date provisional classification expires, if appropriate; date of last state survey; date of last joint federal state survey; date of last reported bacteriological examination; date of last laboratory certification; and state.

A record is created upon receipt of EPA Form 162 (CIN), Report of Water Supply Used on Interstate Carriers for any unrecorded water supply. This report is submitted by individual state agencies. Data is extracted from this form and typed onto a computer printout sheet (one per supply) with headers printed across the top, including name, population, number, etc. Updates are made upon receipt of an updated version of Form 162 and EPA 162 entitled Bacteriological Examination. Date of actions shown on this form are typed on the appropriate record. File contains 50 records stored alphabetically by state. Each record begins with dates as of 1972. No plans exist for purging records.

ES-10277 STORET STATION LOCATION SYSTEM EPA Region 7, Kansas City OPERATIONAL 1970 MANUAL. Kennedy, Betty L., Senior Statistical Clerk, Monitoring Branch.

Aids the Monitoring Branch to answer queries on STORET station locations and to index the extensive master file of STORET water sample data.

No formal reports are produced. Output consists of a reference source to answer queries from all STORET users on the location of STORET water sampling stations. Current STORET station location listings either are too extensive for quick reference or lack sufficient detail for precisely locating stations. The system acts as a crosswalk or cross index from a location description to a STORET station number. Informational elements are agency responsible for station location; station number; STORET number, and code; receiving stream; stream mile and index; latitude/longitude; and location description.

A record is created upon receipt of a station description form 6RD9260.1, and appropriate data is extracted and manually written in a preformatted log book containing 6 records per page. Record updates are made informally when the Monitoring Branch reviews a new location description or a STORET station is discontinued. Records are filed by state in chronological order of date station description received.

ES-10289 LABORATORY SAMPLE LOCATION AND CUSTODY CONTROL FOR OIL SAMPLES EPA Region 9, San Francisco OPERATIONAL 1969 MANUAL. Huth, Gerald, Chief, Chemistry Laboratory, Technical Support Branch.

Provides administrative control of oil spill water samples received from the United States Coast Guard during storage, analyses and litigation.

No reports are generated. Custodial signatures and dates are maintained by the system.

Samples received from the Coast Guard are signed for by laboratory personnel on the custody form accompaning the sample. The sample is placed under lock to await analysis. The chemist assiged the analysis signs for the sample using the same form. When returned, the sample is again locked. The chain of signatures and dates insures the integrity of the sample and, if necessary, can be used as evidence in cases of litigation.

ES-10297 MUNICIPAL INFORMATION SYSTEM EPA Region 10, Seattle OPERATIONAL 1971 MANUAL. Barich, John J., Sanitary Engineer, Municipal Section.

Provides information to evaluate the effectiveness of wastewater treatment facilities in municipalities receiving construction grants in Region 10.

A monthly report, Municipal Programs, is produced by the system. It gives a cumulative year-to-date accounting of the overall reduction in Biological Oxygen Demand (BOD) in monitored plants having received a construction grant. Reports are used in the air and water programs to measure progress and evaluate the effectiveness of the grants program. Additional output of the system concerns information for ad hoc verbal and written reports, as required. Informational elements are applicant's name, project number, STORET basin, project classification, current eligible cost and current grant offer, BOD removed (raw), BOD removed current treatment, and BOD removed post-project.

Input data is extracted from grant application and supporting engineering documents and written on a form (Construction Grants Data Progress Measures) and stored alphabetically by applicant. Forms are updated from engineering reports or modified if multiple grants are given. The system contains 75 records.

ES-10301 OIL POLLUTION ANALYSIS SYSTEM EPA Region 10, Seattle OPERATIONAL 1970 MANUAL. Malueg, Nick J., Chemist, Technical Assistance Branch.

Provides the Surveillance and Analysis Division with a record of oil and harzardous material spill episodes and analyses made.

No formal reports are produced. Its main output is information, which is used by the Enforcement Division or the U.S. Coast Guard in court cases in which the government acts as the plaintiff in oil and hazardous spills. This information is used to evaluate the spill in terms of legal water quality expert testimony. The Environmental Emergency Section of the Air and Water Programs Division also receives information for evaluation and monitoring. Major informational elements maintained by the system includes sample identification and laboratory analysis results of the various parameters tested.

Data is stored in file folders. A file folder is used for each spill episode and contains the analyses of water samples concerned with the particular episode. The system currently contains 200 file folders. A new record is created upon receipt of water samples from a U.S. Coast Guard or EPA official. An identification label is attached to the bottle containing the water sample and noted in a log book upon receipt.

ES-10304 WATER ANALYSIS COLLECTION STATUS NERC, Cincinnati OPERATIONAL 1969 MANUAL. Haskins, James E., Chief Chemist, Pomona Field Site.

Monitors status of requests and used for work scheduling to assign personnel to perform water analyses at the Pomona Field site.

A daily report of water analyzed is prepared giving the chemist's name, type of analyses performed, sample descriptions, sample volume (ml), date of analysis, titrant volume (ml), and remarks. The report is reviewed by the chief chemist and returned to the requesting project engineer for his analysis.

Each project engineer submits to the Chief Chemist an Assignment of Water Analysis which is a request for certain types of analysis to be performed on the samples described on the form. The Chief Chemist reviews the request and using the Pomona Research Laboratory Assignment form, assigns various chemists to perform the required analysis. The form is also used to monitor the status of the request as it moves through the various phases of analyses. A Report on Water Analysis is prepared upon completion of analyses.

ES-10319 SOLAR RADIATION DATA ACQUISITION EPA Lab, Athens, GA OPERATIONAL 1969 MANUAL. Sanders, Walter N., Chief, Pollution Fate Research Program.

Provides data for the Aquatic Ecosystem Simulator through a compilation of spectroradiometer scans.

A weekly report describes solar intensity and wave length in terms of certain variables such as observation conditions, location, position, actual

time, apparatus used and cloud conditions. The table of spectral scans is converted into graphs for ease of reference.

After the spectroradiometer scans are made, there is manual transformation of data recorded into digital form, and an analysis is made. A report is generated and formatted for input into the Aquatic Ecosystem Simulator.

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ES-10009 ENVIRONMENTAL IMPACT STATEMENT SYSTEM EPA Headquarters OPERATIONAL 1971 AUTOMATED. Hanmer, Rebecca W., Director, Policy and Procedures Branch.

Assists in monitoring environmental impact statements through the review process and by generating reports for publishing in the Federal Register.

Four reports are produced. A bi-weekly register listing impact statements on which comments were issued, is used by the Office of Federal Activities to prepare reports for the Federal Register. A monthly Frequency Report showing statements in review process, age distribution, average processing time, number of statements received by region, and the number of statements active by region is used by the Office of Federal Activities to monitor processing, and by regional administrators to check performance of their region. A Quarterly Statement for which comments are overdue is used by the Office of Federal Activities and regions to monitor processing. A listing of the total file off line on a demand basis is used by the Office of Federal Activities and Office of Public Affairs to answer inquiries.

Office of Federal Activities prepares input from Environmental Impact Statement logs mailed in weekly by all regions. Input is via DATEL terminal and files are built using WYLBUR software. Ten application programs, written in PL/1 and ASSEMBLY language requiring a minimum core of 110,000 bytes, are used to process impact data for reports and registers. The system is operational on an IBM System 370/165 at NIH with a DATA 100 high speed printer for output located at EPA Headquarters. The system master file contains 2,000 records averaging 240 bytes per record. **System Revised May 1973**

ES-10013 FEDERAL FACILITIES SYSTEM (FEDFAC) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Bartlett, Robert C., Federal Agency Liaison for Defense; Falkson, Susan D., Systems Analyst.

To be responsive to Congressional and in-house queries by providing a management system to assess the continuing pollution and projects of of federal agencies.

Provide the regional offices, Federal agencies, and Headquarters staff with up-to-date information on a regualr basis. Special requirements are met via EASYTRIEVE in a timely fashion.

Initial file construciton occurred by encoding the data elements (primarily location, project name, and budgetary) for each active Federal facility project contained in Exhibits I and II of OMB circulars A-78 and A-81 and by merging data elements from the GSA tape. Additonal data elements were provided by the regional offices on a printout from the preliminary file. The file is kept up-to-date by the agencies which update and resubmit to OFA reports of their projects. This data is directly entered into the file, which is stored on magnetic disk at NIH, via CARTERFONE S15C terminal. **System Revised May 1973**

ES-10030 REFUSE ACT PERMITS PROGRAM SYSTEM (RAPP) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Temchin, Jerome R., Chief, Systems Branch.

Aids industrial water pollution abatement programs by identifying industrial sources of discharge through a comprehensive data base for measurement, analysis, and enforcement.

No formal reports are produced. Output is information for Boeing System users, consisting mainly of the regions, Office of Water Programs and Office of Refuse Act programs. Information is used primarily for measuring and analyzing the impact and status of industrial waste discharged into navigable water and streams. Major informational elements are applicant identification, location, Corps of Engineers number, water volume of intake discharge and usage, stream receiving discharge, industrial activity and waste abatement practices and discharge contents.

Copies of all Corps of Engineers forms are sent to the Office of Refuse Act programs from the regions after being manually edited. Forms are then batched and sent periodically to a contractor for keypunching and machine editing. Records not passing the edit check are returned to Headquarters for correction and resubmission. Records passing the edit are transcribed to magnetic tape and returned to Headquarters for input into Boeing's Time Sharing system. File contains 40,000 records, averaging 4,000 bytes per record. Fifteen application programs written in COBOL and PL/1 are used for data manipulation and searches. System requires 294,000 bytes of core on an IBM System 370/155. **System Revised May 1973**

ES-10031 MANAGEMENT INFORMATION CONTROL SYSTEM (MICS) EPA Headquarters OPERATIONAL 1971 AUTOMATED. Temchin, Jerome R., Chief, Systems Branch.

Aids the Office of Refuse Act programs in exercising broad administrative control over the Refuse Act Permit Program application process for industrial discharge into navigable waters.

Thirteen major reports are produced. Four reports cover those administrative actions that are either completed, late, or forecasted and are used for administrative control by the Permits Branches at all regions and the Office of Refuse Act programs to monitor actions and events. Nine reports are statistical in nature, listing numbers of permit applications by industry, type of industrial processing, major industries only, industry by standard industrial classification code, applicant name, Corps of Engineers number and district. The statistical reports are used primarily by the Office of Refuse Act programs. System output also includes information on single applications when required. Major informational elements are applicant name, location, Corps of Engineers number, receiving waters, SIC code of discharge, number of discharges, and river basins receiving discharge.

Upon receipt of a permit application, the Region Permits Branch prepares a code sheet in format prescribed by MICS users manual. Data is punched on cards and entered into the system using MICS job control cards usually on an IBM DATA 100 high speed remote terminal. Updates also are made using punched cards and entry by MICS format and JCL cards. Reports production, single application retrievals, and data manipulation also use prestructured MICS instructions on JCL cards. Contains 25 application programs written in PL/1. File contains over 18,500 records, averaging 1,800 bytes per record. System operates on an IBM System 370/155 and requires 176,000 bytes of core.

ES-10048 PROGRAM REVIEW AND EVALUATION SYSTEM (PRES) EPA Headquarters OPERATIONAL 1972 AUTOMATED. Blacker, Stanley, Head, Program Evaluation Section.

Compiles in one location specific information on all monitoring oriented programs operating throughout EPA. The central file would then be used as a starting point for all Agency technical personnel to identify where and who is performing specific monitoring operations of immdediate interest to them.

Searches on any monitoring-oriented term will provide an identification of specific programs where work associated with this term is being performed. The file includes all FY 73 accomplishment plans for all monitoring-oriented operations performed at the NERC's by the Regions, and by Headquarters. It will identify who is performing the work, where being done, and any major results. For those persons anywhere in EPA desiring information on particular monitoring operations, they will find this file an excellent starting point. **System Revised May 1973**

Description of the processing steps has not been received.

ES-10098 MASTER SYSTEM EPA Region 1, Boston OPERATIONAL 1971 AUTOMATED. Landry, Theodore E., Chief, MICS Section; MacDougall, Michael J., Technical Information Specialist, Permits Branch.

Assists in controlling the processing of permit applications by maintaining a data base of industries applying to discharge waste into navigable waters.

No reports are produced by the system. Searches of the file are made for the Enforcement Division and Water Programs Division for reference in processing applications and answering inquiries. The data base is built by extracting region designation, State designation, Corps of Engineers serial number, computer transaction type, applicant name, major type of discharge, number of pipes, and major discharger designation from MICS. To this information is added industry type, EPA file number, month application received, SIC number of each type of industrial discharge, water consumption, and number of employees.

Data is entered and retrieved on-line using a DATEL 30 in Region 1 to Boeing Computer Services IBM System 370/155. Ten application programs consisting of sorts and updates use 450,000 bytes of core. There are 1640, 120-character records on the file.

ES-10105 ENVIRONMENTAL RESIDUAL INFORMATION SYSTEM EPA Region 2, New York OPERATIONAL 1970 AUTOMATED. Smith, Ethan T., Chief, Data Systems Branch.

Provides geographical, industrial, political and demographic information for environmental and economic planning models.

No formal reports are produced.

Seven files comprising the data base in the system: Point Sources, Diffuse Sources, Industrial Wastes, Municipal Waste Treatment Facilities, Minor Civil Division by Population, Minor Civil Division by Personal Incomes, and Facilities Inventory. Each cognizant Branch inputs or updates the data using a format provided by the Data Systems Branch. The data is keypunched, edited and verified before updating the files. The data is made available for input into various environmental and economical planning models.

ES-10119 POWER PLANT PROGRAM MANAGEMENT INFORMATION SYSTEM EPA Region 5, Chicago DEVELOPMENTAL 1972 AUTOMATED. Cohen, Bernard J., Mathematician, Permits Branch.

Will maintain location and technical data on the thermal pollution from power plants and the status of their permits. The monitoring process is designed to assist enforcement procedure.

This developmental system will produce a sorted list of power plants with reference to location, application number, owner's name, receiving waters, type, heat load, priority, dates of operating, 7-year average flow. The user can ask the file for characteristics, give limits and extract his data. The Permits Branch utilizes this system to monitor levels of thermal pollution for enforcement.

Data will be inputed by the Permits Branch utilizing a UCC 1035 in Region 5 and IBM System 370/155 at Boeing Computer Services. Two PL/1 application programs will utilize 200,000 bytes of core. There are 350, 350-character records on the master file.

ES-10121 ENFORCEMENT STATUS REPORT - MUNICIPAL EPA, Region 5, Chicago DEVELOPMENTAL 1972 AUTOMATED. Schenzel, Gary W., Chief, Compliance Section Enf. Br.; Dipert, Merlin, Chief, ADP Services Branch.

Will support municipal wastewater enforcement requirements by monitoring the status of compliance actions in relation to prescribed compliance dates.

This developmental system will have a weekly enforcement status report showing compliance dates of preliminary and final plans submission, financing, and start of construction. It will also show place of operation, dates for state schedule and enforcement conference schedule, and approved water quality standards implementation schedule, miscellaneous schedule, and actual date of implementation. Miscellaneous identification and treatment data will be used by the Enforcement Division to monitor compliance actions. A monthly summary report will show those actions without schedule dates and recently reviewed wastewater treatment facilites. This report will also be used by the Enforcement Division to track the status of enforcement actions.

Abatement commitment letters from municipalities, water quality standards, and state orders have been put into the system via punched card. Later developments of the system will be for industrial requirements and utilization in the General Point Source File for all discharge permits issued under the NPDES. This system will have two application programs written in PL/1 utilizing 250,000 bytes of core on Boeing Computer Services IBM System 370/155 with a DATA 100 in Region 5. It is estimated that 2,000,000 records will be maintained on the master file. **System Revised May 1973**

ES-10144 ENFORCEMENT DIVISION ALTERING PROGRAM EPA Region 8, Denver DEVELOPMENTAL 1972 AUTOMATED. Sotiros, Richard, General Engineer, Permits Branch; LaForest, Dietrich, Computer Technician, Computer Systems Branch.

Will provide administrative control by monitoring voluntary commitments and enforcing required industrial air and water pollution abatement activity.

This developmental system will produce a series of reports. A summary report will describe the action due for the coming two-week period. This will be used by Enforcement Division Branch Chiefs to schedule work and indicate follow-up action. An industry report will show what actions have transpired or are forthcoming per industry. The Enforcement Division will use this report to monitor the status of work. Periodically a list will show those reports due EPA by industries. Enforcement will use this report to monitor the industries.

Action dates, industry names, action descriptions, and the STORET major/minor basin code will be the main data elements of the system. The system will utilize Boeing Computer Services, IBM System 370/155 with a DATA 100 in Region 8 and have its application programs written in FORTRAN.

ES-10145 INVENTORY OF INDUSTRIES IN REGION 8 EPA Region 8, Denver OPERATIONAL 1971 AUTOMATED. Sotiros, Richard, General Engineer, Permits Branch; LaForest, Dietrich, Computer Technician, Computer Systems Branch.

Provides the status for administrative control over waste water permits for those industries having waste discharge into navigable waters and streams.

Four reports are produced. An inventory listing of all industries contacted in regard to the RAPP program and is used to respond to field survey requests. A weekly log lists all applications received for review. The Permits Branch utilizes this report to assign workloads and set priorities. A weekly application status report lists all applications and the status of its progress in the processing scheme. The Permits Branch utilizes this to monitor the status of applications. A weekly required action report shows how many days remain before an application for a permit would expire. The Permits Branch uses this to monitor workload and to schedule assignments.

Those industries that have not filed are coded as to whether an application is expected or the particular industry has no discharge. The master file contains STORET major/minor basin codes. The seven application programs of this system are written in COBOL and PL/1, utilizing 74,000 bytes of core on Boeing Computer Services IBM System 370/155 with a DATA 100 in Region 8.

ES-10149 ENFORCEMENT COMPLIANCE DATES SYSTEM EPA Region 9, San Francisco DEVELOPMENTAL 1972 AUTOMATED. Appel, Bruce, Staff Assistant, Enforcement Division; Obinada, Shumsuke, Environmental Specialist, Management Systems Branch.

Aids monitoring and reviewing the progress of industry and municipalities in meeting pollution abatement requirements established for their facilities by regulatory agencies. Used to alert Enforcement Division of possible legal action.

An Enforcement Compliance Schedule is produced monthly. It lists those industries and municipalities which must meet certain pollution abatement criteria within the next 60 days. The major components of the schedule include the following: location, source name, origin of the requirement, media, cost, type, date of compliance, and the nature of the requirement. The

information is used by the Enforcement Division to monitor and schedule reviews of certain projects if deemed necessary.

Compliance dates and requirements are established by regulatory authority through abatement commitment letters (agreement with discharges), issued refuse act permits, court orders, and enforcement conference. The data taken from these documents are transcribed onto the Enforcement Compliance Monitoring Program Coding Sheet for keypunching. The data entered are state, state code, source name, county, meda, air shed or river basin, origin of requirement, cost, type, date and nature of requirement. All data are machine edited and used to update the current file. The system consists of three application programs written in PL/1 and operate on the Boeing Computer Services IBM System 370/155 with a minimum core requirement of 350,000 bytes.

ES-10150 SECTION 10 REFUSE ACT PERMIT PROGRAM APPLICATION STATUS EPA Region 9, San Francisco OPERATIONAL 1972 AUTOMATED. Thomas, Donald, Analyst, Facilities Section; Thompson, James E., Chief, Management Systems Branch.

Will provide administrative monitoring of the status of Section 10 Permits within EPA Region 9.

Five reports will be produced containing the following information: application type and number, public notice date, name and address of person or firm requesting application, Corps of Engineers district, status, deadline date, final action and location of project. All reports are used to monitor the application's progress through the required internal decision points.

Selected information from a construction permit request is transcribed onto a Section 10 Format Block for keypunching. The input program edits the data and updates the current file. The updating program updates the master file from which the reports are written. The system has three application programs written in PL/1 and operating on IBM System 370/155 requiring a minimum core of 250,000 bytes. **System Revised May 1973**

ES-10255 REFERENCE ACT PERMIT PROGRAM (LOCAL) EPA Region 2, New York OPERATIONAL 1971 MANUAL. Sellar, James, Chief, Compliance Status Branch.

Provides a local retrieval supplement to the National Management Information Control System for the Refuse Act Permit Program.

No formal reports are produced. Data is retrieved for statistical analyses and review of application status. In addition, the system acts as a quick reference for any inquiry into the status of any permit application. The major elements maintained on cards are: applicant name, waterway, application number, number of dischargees, location of plant, primary SIC, critical non-critical, action event, remarks, date, extension.

A formatted entry card record is created upon receipt of a Corps of Engineers Form 434.1-1. Data is extracted from the application and entered on the card. The system records are maintained by the Corps of Engineers, by district. A correspondence file is also kept on each action event along with a ledger entry for each application indicating state certification, special conditions, and major discharges.

ES-10261 FEDERAL FACILITIES FILE EPA Region 3, Philadelphia OPERATIONAL 1962 MANUAL. Gennell, Lee, Chief, Federal Activities Section.

Aids in measuring the pollutant impact of Federal facilities by maintaining an inventory of all such facilities in Region 3, and their pollution treatment capabilities.

A compliance report is prepared as required which lists federal installations surveyed. Amounts, types, and treatment methods of all pollutants are listed by installation. Compliance actions are noted with reference to degree of project completion for pollutant elimination. Reports are used by EPA Headquarters and river planning commissions for compliance activities and to prepare studies.

Inventory sheets for air, water, pesticides, solid waste and noise are forwarded to each federal installation in Region 3 when identified and every 3 years thereafter. Returned forms are reviewed and placed in an installation file. A compliance report is prepared as required.

ES-10276 PERMIT CONTROL CARD FILE EPA Region 7, Kansas City OPERATIONAL 1971 MANUAL. Hayes, Tolva D., Leader, File Unit, Permits Branch.

Aids the Permits Branch to exercise administrative control over the internal processing of an application to discharge into the navigable waters of the United States.

No formal reports are produced. Output consists of source information on the status of permit applications in the administrative processing stage, which helps control the total process. Also used as reference to assist in answering inquiries on application status and serves as a basis for checking the accuracy of the Management Information Control System (MICS). In addition, the system serves as a reference as to whether public notices are planned for a particular application. Informational elements are firm name and address, dates of inquiry and receipt of application, date of letter requesting additional information if application is incomplete, date given to processing unit, date state certification requested and received, and other data, such as dates of public notice and final disposition.

A record is created upon receipt of a Corps of Engineers application form on a preformatted card. Identification data is extracted from the Corps form and typed on the card. Cards are recorded. System contains 1,300 records. No plans exist to purge records of completed applications. System also includes a cross-index file on cards, which includes the application number and applicant's name. These are filed by application number.

ES-10278 ENFORCEMENT BRANCH ACTION LOG EPA Region 7, Kansas City OPERATIONAL 1972 MANUAL. Carter, Thomas M., Chief, Enforcement Branch.

Enables the Enforcement Branch to exercise administrative control over all processing steps and legal actions required in a legal case involving water pollution.

No formal reports are produced. Information is extracted from the system to compile a quarterly report on branch accomplishments for the Enforcement Division. Also serves as a source of information for quick reference on the status of a case, which in turn is used to exercise administrative control over processing. System is also used to develop work schedules for branch employees. Major informational elements are date of case entry; month case discharged; company name and location; receiving waters; date of Permit Branch referral; dates of field investigation requested, performed, and reports reviewed; dates of 180 day notice; dates of actions with the U.S. Attorney; dates dealing with commitment letters; and remarks.

A record is created each time an enforcement action is initiated against a company accused of unlawful discharge. Data is extracted from case files and entered onto the log sheet. Legal and administrative updates are entered as actions take place. All entries are dates, which are entered on a log sheet until the case is terminated. Each log sheet contains actions to be achieved, which are listed across the top of each sheet with columns for date entry each time an action is completed. System contains 100 cases. Plans are being made to automate the system.

ES-10290 ENVIRONMENTAL IMPACT STATEMENT LOG EPA Region 9, San Francisco OPERATIONAL 1971 MANUAL. Jones, Thomas, Chief, Environmental Impact Section.

Aids the Program Planning and Development Branch in exercising administrative control of Environmental Impact Statements received from other Federal Agencies for review and comment. Also used as an evaluator's assignment roster for work scheduling.

No reports are generated.

Environmental Inpact Statements (EIS) received for review are logged in and assigned to an evaluator. Upon completion of the review, to be completed in 30 to 45 days, the EIS is logged out and returned with the evaluator's comments to the requesting agency with a copy to EPA Headquarters. If a final EIS is

received, one that has been commented on previously, the same procedure is used, except only 30 days are allowed for any needed comments. **System Revised May 1973**

ES-10298 CATEGORICAL INFORMATION SUMMARY SYSTEM (CISS) EPA Region 10, Seattle OPERATIONAL 1972 MANUAL. Tate, Willis, Staff Assistant, Categorical Programs Division.

Provides categorical program managers with a comprehensive list of organizations and persons for consultation and information in their particular area of interest.

Two formal reports are produced. One lists information sources on pesticides and the other on radiation. These reports are sent to program managers, State officials, and other interested government officials in Region 10. Both reports are used during information searches. These reports contain such information as organization name, contact name, telephone number and address, type of data collected, methodology, and frequency of analysis.

Initially, information was collected by telephoning known sources of data who in turn were questioned about other sources of data. About 60 records are now stored in a file by program area, in alphabetical order by author. Plans are to update the system every 6 months by recontacting each source in the file. In addition, the system is to be expanded to include solid waste and noise.

ES-10299 PERMITS KARDEX FILE EPA Region 10, Seattle OPERATIONAL 1971 MANUAL. Eldridge, Warren E., Chief, Administrative Section.

Enables the Permits Branch to control all the administrative processing steps associated with a Section 13 discharge application, which permits industry to discharge refuse into the navigable waters of the United States. The system provides a ready historic reference on the status of all applications.

No formal reports are produced directly by the system. Information is taken from the system and acts as input for status reports submitted to the Enforcement Division Regional Administrator and EPA Headquarters. Another use of the system's information is in the development of work schedules for Permits Branch employees. In addition, the system acts as a quick reference for public inquiries in the status of permit applications. Informational elements included in the system are applicant's name, Corps of Engineers number, applicant's location, standard industrial classification of discharge, number of discharge pipes, processing actions/events, and remarks.

A formatted entering card record is created upon receipt of the application, Corps of Engineers Form 4345-1. Appropriate dates and data are extracted from the form and entered on the card record. The system contains 860 records grouped by Corps of Engineers number and Corps of Engineers districts. Update entries are made as processing actions are completed. No plans exist to purge the system of completed records.

ES-10300 CONSTRUCTION PERMITS SYSTEM EPA Region 10, Seattle OPERATIONAL 1972 MANUAL. Lee, Ronald A., Chief, Construction Permits Section.

Provides the Permits Branch with administrative control over all Section 10 construction permit applications.

No formal reports are generated. Output is mainly that of reference and providing an index to larger files. Other uses include compilation of annual permit statistics and development of work schedules for branch employees regarding evaluation of associated impact statements. File contains applicant identification, type of activity to be accomplished, description of work, status of action by EPA reviewers, and a Permits Branch assigned number.

Contains two separate, but related subfiles. The major file is maintained on cards. A record is created each time the Corps of Engineers sends a copy of a public notice to the Permits Branch. At this time, an entry is also made into a log book. This log is the second subfile which serves as a reference to the card file. Records are updated as processing actions or events take place. No plans exist to purge completed records. The file currently contains 800 records.

SUBJECT INDEX

Cross References to Environmental Information Systems Descriptions Arranged Alphabetically by Subject Terms. References to each System Consist of a Descriptive Notation, Category Number Under which the System Description Appears, and the Environmental System (ES) Identification Number for the System.

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Quasi-official file of all reported accidents and episodes involving Pesticides. MANUAL EPA Region 10, Seattle 203 ES-10293

PESTICIDES ANALYSIS

Registration information on pesticides analysis and ingredients (PARCS). AUTOMATED EPA Headquarters 203 ES-10083

Pesticide product sample information. MANUAL Region 1, Boston 203 ES-10249

Pesticide cross reference index. MANUAL EPA Region 9, San Francisco 203 ES-10287

Statistical results of experiments of pesticide exposure on primates. AUTOMATED EPA Lab, Perrine, FL 203 ES-10316

Test information on the effects of pesticides compounds on estuarine organisms. MANUAL EPA Lab, Gulf Breeze, Fl 203 ES-10318

Spectrographic data recorded for input into the Aquatic Ecosystem Simulator. MANUAL EPA Lab, Athens, GA 206 ES-10319

PESTICIDES, ENFORCEMENT

Reports and investigations on environmental injury from pesticides. AUTOMATED EPA Headquarters 203 ES-10082

PESTICIDES, HUMAN ACCUMULATION

Information on effects of pesticides on humans. AUTOMATED EPA Laboratory, Chamblee, GA 203 ES-10208

PESTICIDES, IMPORTS

Information on pesticides imports. MANUAL EPA Headquarters 203 ES-10232

File of imported pesticide products. MANUAL EPA Region 7, Kansas City 203 ES-10274

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PESTICIDES MONITORING

Information from stations monitoring pesticide content of air. AUTOMATED EPA Lab, Chamblee, GA 203 ES-10207

PESTICIDES REGISTRATION

National system for registering pesticides chemical ingredients and uses, and toxicity category. AUTOMATED EPA Headquarters 203 ES-10028

Compiles records on the registration of pesticides (NONE). MANUAL EPA Headquarters 203 ES-10039

Registration information on pesticides analysis and ingredients (PARCS). AUTOMATED EPA Headquarters 203 ES-10083

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Soil and climatic data affecting pesticide levels. AUTOMATED EPA Lab, Athens, GA 203 ES-10219

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Assists state governments in preparing air pollution plans for reduction of sulfur oxides and particulates (IPP). AUTOMATED EPA Headquarters 201 ES-10058

Assessment of national - regional water use by 1975. AUTOMATED EPA Headquarters 206 ES-10078

Status and description of current projects in the Laboratory Operations Division of the Office of Research and Monitoring (LOD. MIS). AUTOMATED EPA Headquarters 106 ES-10097

New York and New Jersey interim basin plans for water quality. AUTOMATED EPA Region 2, New York 206 ES-10104

Environmental, industrial, political and demographic information. AUTOMATED EPA Region 2, New York 207 ES-10105

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Testing and reporting of results on all pesticides used nationwide. MANUAL EPA Headquarters 203 ES-10320

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Human health effects of specific air pollutants (CHESS). AUTOMATED HERC, Durham 201 ES-10186

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City directory with identification codes and demographic data (STORET). AUTOMATED EPA Headquarters 206 ES-10034.04

Environmental, industrial, political and demographic information. AUTOMATED EPA Region 2, New York 207 ES-10105

County population statistics. AUTOMATED EPA Region 6, Dallas 206 ES-10126

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Information on employee clearance status (ESS). AUTOMATED EPA Headquarters 107 ES-10022

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Registration information on pesticides analysis and ingredients (PARCS). AUTOMATED EPA Headquarters 203 ES-10083

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OFFICE OF WATER ENFORCEMENT
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Data on automobiles imported into the USA used for enforcing import regulations involving auto emissions. AUTOMATED EPA Headquarters 201 ES-10049

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OFFICE OF INTERGOVERNMENTAL PROGRAMS
OFFICE OF WATER PROGRAMS OPERATIONS
MANPOWER DEVELOPMENT STAFF
MUNICIPAL WASTE WATER SYSTEMS DIVISION

State utilization of construction grant allocations by project. AUTOMATED EPA Headquarters 101 ES-10033

Grants awarded and changes to existing grants for municipal waste water treatment plants. AUTOMATED EPA Headquarters 101 ES-10035

File of pending construction grants for waste water treatment. AUTOMATED EPA Headquarters 101 ES-10036

Indexes of construction costs for sewers and wastewater treatment plants. AUTOMATED EPA Headquarters 101 ES-10037

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Municipal waste water treatment plant operation and maintenance information. AUTOMATED EPA Headquarters 206 ES-10077

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ASSISTANT FOR CONGRESSIONAL AND INTERGOVERNMENTAL RELATIONS
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JOHNSON, DION - Technical Information Specialist, Program Information Branch

File of EPA sponsored research, development and demonstration project information (PROJECTS). AUTOMATED EPA Headquarters 104 ES-10089

JOHNSON, HERBERT E. - Chief, Grants Administration Branch

Grant processing information. MANUAL EPA Region 2, New York 101 ES-10100

JOHNSON, LEE F. - Public Affairs Specialist, Public Affairs Division

Mailing and reference list of special interest groups. MANUAL EPA Region 10, Seattle 107 ES-10157

Current list of names and addresses of all news media. MANUAL EPA Region 10, Seattle 107 ES-10158

JONES, GREENE A. - Chief, Environmental Planning Branch

Status of construction grants projects. AUTOMATED EPA Region 3, Philadelphia 101 ES-10108

JONES, PAUL W. - Acting Chief, Facilities Services

Inventory of NSPCP laboratory analytical equipment. MANUAL EPA Headquarters 102 ES-10235

JONES, THOMAS - Chief, Environmental Impact Section

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Administrative log of Federal Agency Environmental Impact Statements received. MANUAL EPA Region 9, San Francisco 207 ES-10290

JOSLIN, JOSEPH E. - Chief, Operations and Maintenance Branch

Processing requirements for construction grants. AUTOMATED EPA Region 7, Kansas City 101 ES-10266

JULIAN, E. C. - Staff Programmer, AQC Laboratory

Financial commitments information (VOST). AUTOMATED NERC, Cincinnati 103 ES-10167

Employee cost data (FOSH). AUTOMATED NERC, Cincinnati 103 ES-10170

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KAPINOS, P. PAUL - Sanitary Engineer, Monitoring and Information Branch

STORET Water Station File (NET). AUTOMATED EPA Headquarters 206 ES-10073

KAPLAN, M. - Systems Analyst, Financial Systems Branch

Integrated accounting, payroll and grants financial data (IFMS). AUTOMATED EPA Headquarters 103 ES-10015

KELLY, RICHARD - Director, Office of Civil Rights and Urban Affairs

Statistics on minority workers on federally subsidized contracts. MANUAL EPA Region 9, San Francisco 101 ES-10286

KENNEDY, BETTY L. - Senior Statistical Clerk, Monitoring Branch

Descriptive listing of STORET stations and their locations. MANUAL EPA Region 7, Kansas City 206 ES-10277

KENT, GEORGE W. - Chief, Water Quality Registration Branch

Mailing list of persons/organizations interested in water quality (ADDLAB). AUTOMATED NERC, Cincinnati 107 ES-10172

Water quality inventory of municipal water supplies. AUTOMATED EPA Headquarters 206 ES-10066

Water quality inventory of interstate carrier water supplies (ICWS). AUTOMATED EPA Headquarters 206 ES-10079

Water analysis data base of community water supply systems (CWSSI). AUTOMATED EPA Headquarters 206 ES-10080

KINGERY, J. - Mathematical Statistician, Robert S. Kerr Water Research Center

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KIRKPATRICK, R. - Director, Office of Grants Coordination

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KISSLER, KENNETH F. - Program Coordinator, Pesticides Regulation Division

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KNIGHT, JOHN E. - Technical Information Specialist, APTIC

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KOCHIN, LEO - Chief, Financial Management Branch

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KOHNERT, KAREN - Budget Analyst, Financial Management Branch

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KOKE, ROBERT J. - Sanitary Engineer, Program Support Branch

Reference file on Federal waste water treatment facilities. AUTOMATED EPA Region 7, Kansas City 206 ES-10132

KOLBINSKY, ROBERT E. - Chief, Technical Publications Branch

System for publication of EPA technical and research reports and papers on air pollution. MANUAL EPA Headquarters 201 ES-10016

KUSSMAN, ROBERT E. - Staff Sanitary Engineer, State Programs Branch

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L

LAFOREST, DIETRICH - Programmer, Computer Services Branch

Identification of personnel who did not receive a payroll check (PCR). AUTOMATED EPA Region 8, Denver 103 ES-10136

Air and water pollution control requirements for industry. AUTOMATED EPA Region 8, Denver 207 ES-10144

Inventory of industries producing waste discharge. AUTOMATED EPA Region 8, Denver 207 ES-10145

LANDRY, THEODORE E. - Chief, NICS Section

Data base of industrial waste discharge permit applications. AUTOMATED EPA Region 1, Boston 207 ES-10098

LARKIN, J.P. - Chief, Personnel Branch

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LAWRENCE, CALVIN - Supervisory Program Analyst, Program Development Branch

Office of Research and Monitoring program planning and financial information. MANUAL EPA Headquarters 106 ES-10243

LEE, EDWIN - Chief, Grants Administration Branch

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LEE, RONALD A. - Chief, Construction Permits Section

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LEIGHTON, IRA W. - Sanitary Engineer, Solid Waste Management Branch

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LEWIS, ALAN B. - Chief, Financial Management Branch

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LEWIS, JESSE L. - Chief, Monitoring Survey Section

Costs of municipal waste water treatement facilities for the budgeting of federal grants (STORET). AUTOMATED EPA Headquarters 206 ES-10034.06

Description of municipal wastewater facilities, and estimates on national requirement for waste water treatment plants (STORET). AUTOMATED EPA Headquarters 206 ES-10034.07

LIDDLE, CHARLES G. - Chief, Biophysics Unit

Radiation effects information on a large feline colony (THE CAT SYSTEM). AUTOMATED NERC, Durham 204 ES-10190

LISLE, JOHN D. - Director, Office of Audit

Status and problems of audit investigation. MANUAL EPA Headquarters 106 ES-10231

LORENZETTI, RALPH - Staff Sanitary Engineer

Water laboratory system for analysis and reporting of chemical and biological content of Ohio River Basin. MANUAL EPA Region 3, Philadelphia 206 ES-10259

LOWE, JACK I. - Deputy Director, Gulfbreeze Laboratory

Test information on the effects of pesticides compounds on estuarine organisms. MANUAL EPA Lab, Gulf Breeze, Fl 203 ES-10318

LOWRIMORE, GENE - Chief, Data Processing Section

Human health effects of specific air pollutants (CHESS). AUTOMATED NERC, Durham 201 ES-10186

MACDOUGALL, MICHAEL J. - Technical Information Specialist, Permits Branch

M

MACDOUGALL, MICHAEL J. - Technical Information Specialist, Permits Branch

Data base of industrial waste discharge permit applications. AUTOMATED EPA Region 1, Boston 207 ES-10098

MALUEG, NICK J. - Chemist, Technical Assistance Branch

Official file of laboratory analysis of oil and hazardous materials spills. MANUAL EPA Region 10, Seattle 206 ES-10301

MANNING, RICHARD - Computer Programmer, Water Quality Register Branch

Water quality inventory of municipal water supplies. AUTOMATED EPA Headquarters 206 ES-10066

Water quality inventory of interstate carrier water supplies (ICWS). AUTOMATED EPA Headquarters 206 ES-10079

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MARQUEZ, J. - Director, Management Division

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MARTINEAU, JOHN R. - DIPS Personnel Coordinator, Operations and Services Branch

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MARZKE, JAMES H. - Chief, Certification Branch

Automotive manufacturers address list. MANUAL EPA Headquarters 107 ES-10238

MATEO, AUGUSTIN D. - Chief, Data Support Branch

Inventory of library books at NSPCP, Ann Arbor, MI. AUTOMATED EPA Headquarters 104 ES-10042

MAYRONNE, FERGUISE E. - Equal Employment Opportunity Officer, Equal Employment Opportunity Branch

Minority and female employment reporting system. AUTOMATED EPA Headquarters 105 ES-10008

MCBRIDE, W. - Chief, Financial Management Branch

Accounting of funds by division and program element (FMS). AUTOMATED EPA Region 4, Atlanta 103 ES-10112

MCCULLEY, GEORGE J. - Chief, Grants Administration Branch

Administrative and Fiscal Control System for Construction Grants (GRIMS). AUTOMATED EPA Region 10, Seattle 101 ES-10151

MCGUIRE, JOHN - Chief, Chromatography and Mass Spectrometry Section

Chemical compound identification through use of mass spectra data (SEWL3P). AUTOMATED EPA Laboratory, Athens, GA 206 ES-10221

MEEK, JAMES G. - Chief, Accomplishment Planning Section

Water pollution sources, tasks, milestones and actions to improve water quality by 1976. MANUAL EPA Headquarters 206 ES-10044

MERSCH, JEROME B. - Chief, Data Services Section

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Assists state governments in preparing air pollution plans for reduction of sulfur oxides and particulates (IPP). AUTOMATED EPA Headquarters 201 ES-10058

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METINK, A. F. - Chief, Instrumentation Development Activities

On- line water quality sensing and processing system. AUTOMATED NERC, Cincinnati 206 ES-10181

MICHEL, ROBERT L. - General Engineer, Evaluation and Resource Control Branch

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Indexes of construction costs for sewers and wastewater treatment plants. AUTOMATED EPA Headquarters 101 ES-10037

Transfer of technology from research and development projects to waste water treatment production projects. AUTOMATED EPA Headquarters 206 ES-10070

Municipal waste water treatment plant operation and maintenance information. AUTOMATED EPA Headquarters 206 ES-10077

MILLER, HENRY C. - Chief, Office of Fuel and Fuel Additive Registration

File of manufacturers and users of fuel additives (FARS). MANUAL NERC, Durham 201 ES-10309

MOBLEY, J. DAVID - Manager, Computer Operations, Data Branch

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Vehicle emission test projects and results. AUTOMATED EPA Headquarters 201 ES-10063

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O

PALIKAN, JOHN M. - Computer Systems Analyst, Management Information & Data Systems Div

P

PALIKAN, JOHN M. - Computer Systems Analyst, Management Information & Data Systems Div

Bibliography of Water Quality Research Reports. AUTOMATED EPA Headquarters 206 ES-10094

PANDOLFI, THOMAS - Systems Analyst, Monitoring Survey Section

Government contract awards for sewage facilities construction. AUTOMATED EPA Headquarters 206 ES-10018

City directory with identification codes and demographic data (STORET). AUTOMATED EPA Headquarters 206 ES-10034.04

Fish kills by place, date, cause, severity and duration (STORET). AUTOMATED EPA Headquarters 206 ES-10034.05

Waste water treatment plans implemented by industry to meet federal and state government standards. AUTOMATED EPA Headquarters 206 ES-10071

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PAPARELLA, JOSEPH - Computer Specialist, Data Support Branch

Status information on major contracts. AUTOMATED EPA Region 3, Philadelphia 101 ES-10107

PARKER, LARRY A. - Chief, Laboratory Support Group

Water laboratory system for analysis and reporting of chemical and biological content of Ohio River Basin. MANUAL EPA Region 3, Philadelphia 206 ES-10259

PERRY, JACK - Facilities Officer, Facilities Management Branch

Space utilization and cost of facilities in North Carolina. MANUAL EPA Headquarters 102 ES-10227

PHELPS, DONALD R. - Chief, Environmental Studies Branch

Water pollution monitoring system (ANSWER). AUTOMATED EPA Lab, West Kingston, RI 206 ES-10211

PLATT, M. - Senior Programmer, Systems Branch

Program planning and management information (RMIS). AUTOMATED EPA Headquarters 106 ES-10021

POSS, ROBERT A. - Chief, Pesticides Branch

Quasi-official file of all reported accidents and episodes involving Pesticides. MANUAL EPA Region 10, Seattle 203 ES-10293

File of all pesticide products imported. MANUAL EPA Region 10, Seattle 203 ES-10294

File of pesticides products sampled. MANUAL EPA Region 10, Seattle 203 ES-10295

POWERS, FRANK E. - Chief, Property and Supply Management, General Services Branch

Accountability of personal property and related actions (PPS). AUTOMATED EPA Headquarters 102 ES-10012

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RANDECKER, VICTOR - Chief, Laboratory Resources Branch

Laboratory occupancy and space inventory (LIS). AUTOMATED EPA Headquarters 102 ES-10091

RANDOLPH, ANN - Staff Assistant, Program Review and Reporting Division

Status and degree of accomplishment for planned programs. MANUAL EPA Headquarters 106 ES-10230

REED, ELOISE - Information Specialist, Public Affairs Division

Mailing label system. AUTOMATED EPA Region 7, Kansas City 107 ES-10130

REMINGTON, ROBERT L. - General Services Officer, General Services Branch

Inventory of AEC equipment (GSAPR). AUTOMATED NERC, Las Vegas 102 ES-10193

REYES, FRANCIS J. - Computer Technician, Data Systems Branch

Mailing labels for dissemination of EPA information. AUTOMATED EPA Region 10, Seattle 107 ES-10156

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RHODES, RALPH - Chief, Surveillance Branch

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RIEMANN, ROBERT H. - Computer Specialist, Data System Branch

Administrative and Fiscal Control System for Construction Grants (GRIMS). AUTOMATED EPA Region 10, Seattle 101 ES-10151

Accountable property inventory. AUTOMATED EPA Region 10, Seattle 102 ES-10153

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RITTER, RONALD R. - Chief, Grants Administration Branch

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SOTIROS, RICHARD - General Engineer, Permits Branch

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SOTIROS, RICHARD - General Engineer, Permits Branch

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Air and water pollution control requirements for industry. AUTOMATED EPA Region 8, Denver 207 ES-10144

Inventory of industries producing waste discharge. AUTOMATED EPA Region 8, Denver 207 ES-10145

STEINBORN, DANIEL - Program Analyst, Program Planning and Development Branch

Listing of Program accounts, their accrued costs and balances (RMS). AUTOMATED EPA Region 10, Seattle 103 ES-10154

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SWALWELL, JAMES E. - Chief, Personnel Branch

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TATE, E. DENNIS - Chief, Office of Technical Reports

Technical reports describing research efforts on radiation. MANUAL NERC, Las Vegas 104 ES-10310

TATE, WILLIS - Staff Assistant, Categorical Programs Division

Inventory of solid waste disposal sites. MANUAL EPA Region 10, Seattle 205 ES-10296

Directory of information sources on categorical programs (CISS). MANUAL EPA Region 10, Seattle 207 ES-10298

TENCHIN, JEROME E. - Chief, Systems Branch

File of technical data on Refuse Act Permit Program applicants (RAPP). AUTOMATED EPA Headquarters 207 ES-10030

File on industrial permit applications for waste discharge into navigable waters (NICS). AUTOMATED EPA Headquarters 207 ES-10031

THIN, DONALD - Systems Analyst, Grants Information Branch

Current status of grant applications at EPA Headquarters. AUTOMATED EPA Headquarters 101 ES-10011

Daily grant awards notification. AUTOMATED EPA Headquarters 101 ES-10225

THOMAS, DONALD - Analyst, Facilities Section

Status of Section 10 construction permit applications. AUTOMATED EPA Region 9, San Francisco 207 ES-10150

THOMAS, SARAH - Chief, Library Systems Branch

EPA library information network service. AUTOMATED EPA Headquarters 104 ES-10017

THOMPSON, JAMES E. - Chief, Management Systems Branch

Construction grants status information. AUTOMATED EPA Region 9, San Francisco 101 ES-10146

Integrated financial system used for project and budget management (PSR). AUTOMATED EPA Region 9, San Francisco 106 ES-10147

Mailing label system. AUTOMATED EPA Region 9, San Francisco 107 ES-10148

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THORPE, PAUL - Systems Analyst, Data Reporting Branch

Procedures for accessing interagency data bases on water pollution (GCIS). AUTOMATED EPA Headquarters 206 ES-10065

Coastal zone topographic information. AUTOMATED EPA Headquarters 206 ES-10068

Number and extent of beach recreation areas closed by water pollution. AUTOMATED EPA Headquarters 206 ES-10069

Pollution information on estuaries and coastal zones (NEI). AUTOMATED EPA Headquarters 206 ES-10076

TOBIN, CHARLES - Computer Systems Analyst, Monitoring Graphics Section

Digitized maps depicting STORET geographic identification and coordinates (AUTOMAP). AUTOMATED EPA Headquarters 206 ES-10034.02

Inventory of USGS maps and automap production status (NISS). AUTOMATED EPA Headquarters 206 ES-10034.03

TOWNLEY, DONALD A. - Director, Categorical Programs Division

Manhour accounting for Categorical Programs Division employees. AUTOMATED EPA Region 7, Kansas City 105 ES-10133

TRAYLOR, DUANE E. - Chief, Planning and Resources Branch

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TUCKER, LEONA E. - Legislative Specialist, Office of Legislation

Federal environment legislation status. MANUAL EPA Headquarters 106 ES-10001

TUTWILER, CLARENCE - Acting Chief, Information Access Section

National water quality file used for planning, analyses, and enforcement activity (STORET). AUTOMATED EPA Headquarters 206 ES-10034.01

Data on waste water discharges, construction grants, refuse permits, and enforcement of standards (GPSF). AUTOMATED EPA Headquarters 206 ES-10067

V

VIGIL, ALFRED R. - Chief, Grants Administration Branch

Administrative control for construction grants. MANUAL EPA Region 8, Denver 101 ES-10279

VOIGHT, KENNETH R. - Chief, Grants Administrative Branch

Administrative control system for construction grants. MANUAL EPA Region 5, Chicago 101 ES-10262

W

WEBSTER, DANIEL - Computer Specialist, Support Services Branch

Mailing label system. AUTOMATED EPA Region 7, Kansas City 107 ES-10130

Administrative control system for laboratory processing of water samples (LAM). AUTOMATED EPA Region 7, Kansas City 206 ES-10131

WEINER, LAWRENCE J. - Computer Systems Analyst, Program Information Branch

Listing of Water Analysis Publications on Analytical methods (AMIC). AUTOMATED NERC, Cincinnati 104 ES-10092

WHITE, D. - Chief, Technical and Administrative Data Support Branch

County population statistics. AUTOMATED EPA Region 6, Dallas 206 ES-10126

WHITESELL, JAMES T. - Systems Analyst, Data Acquisition and Analysis Branch

Daily air samples of radiocativity levels at selected locations in 21 western states. AUTOMATED NERC, Las Vegas 204 ES-10197

Individual radiation exposure, and levels of emission by location. AUTOMATED NERC, Las Vegas 204 ES-10202

WICKLUND, JOHN C. - Chief, Pesticides Branch

File of pesticide products sampled. MANUAL EPA Region 7, Kansas City 203 ES-10272

File of reported accidents and episodes involving pesticides. MANUAL EPA Region 7, Kansas City 203 ES-10273

File of imported pesticide products. MANUAL EPA Region 7, Kansas City 203 ES-10274

WIERSMA, G. BRUCE - Head, Monitoring Section

Pesticide levels in soil. AUTOMATED EPA Headquarters 203 ES-10222

WIETHORN, P. - Procurement Analyst, Contracts Policy and Review Branch

EPA wide contract status information (CIS). AUTOMATED EPA Headquarters 101 ES-10010

YOUNG, LEWIS A. - Chief, Program Support Branch

WOLF, C. T. - Chief, Systems Branch

Program planning and management information (RMIS). AUTOMATED EPA Headquarters 106 ES-10021

Y

YARRINGTON, ROBERT - Program and Design Engineer, Department of Environmental Services, DC

Continuous monitoring and analysis of waste water sensor information. AUTOMATED EPA DC Pilot Plant 206 ES-10223

YORKE, C. ALVIN - Chief, Federal Activities Section

Data base for monitoring, air, water, and solid waste pollution compliance of Federal Facilities. AUTOMATED EPA Region 8, Denver 206 ES-10142

YOUNG, LEWIS A. - Chief, Program Support Branch

Administrative control for processing steps in construction grant applications. MANUAL EPA Region 7, Kansas City 101 ES-10236

INFORMATION SYSTEMS RESUME

PART 1

1. EPA ID NO.	2. WASHINGTON CENTER NO.	3. EPA CATEGORY	4. TYPE OF SYSTEM	5. HQ, REGION, NERC, OR LAB
6. SYSTEM ID	7. SYSTEM ACRONYM	8. SYSTEM OR SUBSYSTEM NAME		
9. STATUS ☐ OPER. ☐ DEV. ☐ INAC	10. YEAR IMPLE-MENTED	11. YEAR OF LATEST REVISION	12. EST ANNUAL OPERATING COST	13. SYSTEM JUSTIFICATION OR AUTHORITY

14. TYPE OF SYSTEM ☐ AUTOMATED ☐ MANUAL (GO TO ITEM 30)

EQUIPMENT UTILIZED	EQUIPMENT LOCATION	EQUIPMENT OPERATED BY
15. MAIN FRAME 18. REMOTE	16. 19.	17. 20.

21. PROGRAMMING LANGUAGES USED	22. SYSTEM SOFTWARE	23. SOFTWARE DEVELOPED BY
☐ COBOL ☐ FORTRAN ☐ RPG ☐ PL/1 ☐ ASSEMBLY ☐ OTHER (SPECIFY)	☐ SPECIALIZED ☐ GENERALIZED (SHOW NAME)	☐ LOCAL STAFF ☐ OTHER (SPECIFY)
24. INPUT CHARACTERISTICS	**25. ENVIRONMENT**	**26. OUTPUT CHARACTERISTICS**
☐ PUNCHED CARD ☐ CASSETTE ☐ MAGNETIC CARD ☐ SENSOR ☐ OTHER (SPECIFY)	☐ OFF LINE ☐ BATCH ☐ ON LINE ☐ INTERACTIVE ☐ DIGITAL ☐ ANALOG	☐ LINE PRINTER ☐ TYPEWRITER ☐ MAG. TAPE ☐ PLOTTER ☐ CRT
27. MAXIMUM CORE REQUIRED _____ ☐ BYTES ☐ WORDS IF OVERLAYED: _____ PERCENT	28. NUMBER OF APPLICATION PROGRAMS	29. SIZE OF LARGEST FILE RECORDS _____ AVG. BYTES/WORDS PER RECORD _____ (GO TO ITEM 33)

30. SPECIAL FILING OR OTHER EQUIPMENT USED	31. STANDARD FORMS USED FOR FILE RECORDS	32. NUMBER OF RECORDS IN FILE

33. SYSTEM MANAGER'S NAME	34. SYSTEM MANAGER'S TITLE	35. ORGN CODE	36. PHONE
BRANCH TITLE	DIVISION TITLE	OFFICE TITLE	
37. DATA PROCESSING REPRESEN-TATIVE	38. REPRESENTATIVE TITLE	39. ORGN CODE	40. PHONE
BRANCH TITLE	DIVISON TITLE	OFFICE TITLE	

AUTOMATED SYSTEM DOCUMENTATION AVAILABILITY (ATTACH COPIES WHERE AVAILABLE)

41.	☐ YES ☐ NO	SYSTEM FLOWCHART	44.	☐ YES ☐ NO	FILE LAYOUTS
42.	☐ YES ☐ NO	SYSTEM DESCRIPTION	45.	☐ YES ☐ NO	CODE DESCRIPTION
43.	☐ YES ☐ NO	SAMPLE OUTPUT REPORTS	46.	☐ YES ☐ NO	INPUT SOURCE DOCUMENTS

MANUAL SYSTEM DOCUMENTATION AVAILABILITY (ATTACH COPIES WHERE AVAILABLE)

47.	☐ YES ☐ NO	FORMS FLOW DIAGRAM	50.	☐ YES ☐ NO	FILE FORMS SAMPLES
48.	☐ YES ☐ NO	PROCEDURES	51.	☐ YES ☐ NO	SOURCE COLLECTION DOCUMENTS
49.	☐ YES ☐ NO	SAMPLE REPORTS			

PREPARED BY	DATE	REVIEWED BY	DATE

INFORMATION SYSTEMS RESUME

PART 2

EPA ID NO.	EPA CATEGORY	TYPE OF SYSTEM	SYSTEM OR SUBSYSTEM NAME

INPUTS

TITLE OF INPUT OR SOURCE DOCUMENT	METHOD OF INPUT ☐ PUNCHED CARD ☐ MAGNETIC TAPE ☐ PUNCHED TAPE ☐ OCR
SYSTEM OR ORGANIZATION PROVIDING INPUT	UPDATE FREQUENCY ☐ ANNUAL ☐ QTR ☐ DAILY ☐ S. ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY)
TITLE OF INPUT OR SOURCE DOCUMENT	METHOD OF INPUT ☐ PUNCHED CARD ☐ MAGNETIC TAPE ☐ PUNCHED TAPE ☐ OCR
SYSTEM OR ORGANIZATION PROVIDING INPUT	UPDATE FREQUENCY ☐ ANNUAL ☐ QTR ☐ DAILY ☐ S. ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY)
TITLE OF INPUT OR SOURCE DOCUMENT	METHOD OF INPUT ☐ PUNCHED CARD ☐ MAGNETIC TAPE ☐ PUNCHED TAPE ☐ OCR
SYSTEM OR ORGANIZATION PROVIDING INPUT	UPDATE FREQUENCY ☐ ANNUAL ☐ QTR ☐ DAILY ☐ S. ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY)

OUTPUTS

OUTPUT REPORT TITLE	FORM OF OUTPUT ☐ COMPUTER PRINTOUT ☐ TYPED/PRINTED ☐ MAGNETIC TAPE ☐ MICROFILM ☐ PUNCHED CARDS ☐ PLOTTER ☐ PAPER TAPE ☐ OTHER (SPECIFY) ☐ LOCAL TERM. DISPL.
FREQUENCY ☐ QUARTERLY ☐ DAILY ☐ ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY) ☐ SEMI ANNUAL ☐ WEEKLY	
PRINCIPAL USER ORGANIZATIONS	OUTPUT USES
OUTPUT REPORT TITLE	FORM OF OUTPUT ☐ COMPUTER PRINTOUT ☐ TYPED/PRINTED ☐ MAGNETIC TAPE ☐ MICROFILM ☐ PUNCHED CARDS ☐ PLOTTER ☐ PAPER TAPE ☐ OTHER (SPECIFY) ☐ LOCAL TERM. DISPL.
FREQUENCY ☐ QUARTERLY ☐ DAILY ☐ ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY) ☐ SEMI ANNUAL ☐ WEEKLY	
PRINCIPAL USER ORGANIZATIONS	OUTPUT USES
OUTPUT REPORT TITLE	FORM OF OUTPUT ☐ COMPUTER PRINTOUT ☐ TYPED/PRINTED ☐ MAGNETIC TAPE ☐ MICROFILM ☐ PUNCHED CARDS ☐ PLOTTER ☐ PAPER CARDS ☐ OTHER (SPECIFY) ☐ LOCAL TERM. DISPL.
FREQUENCY ☐ QUARTERLY ☐ DAILY ☐ ANNUAL ☐ MONTHLY ☐ OTHER (SPECIFY) ☐ SEMI ANNUAL ☐ WEEKLY	
PRINCIPAL USER ORGANIZATIONS	OUTPUT USES
FORM PREPARED BY NAME DATE	FORM REVIEWED BY NAME DATE

INFORMATION SYSTEMS RESUME

PART 3

EPA ID NO.	EPA CATEGORY	TYPE OF SYSTEM	SYSTEM OR SUBSYSTEM NAME

52. SYSTEM OBJECTIVES (DESCRIBE CHANGES FROM ORIGINAL OBJECTIVES IF KNOWN)

53. REPORT INFORMATION AND USES

54. SIGNIFICANT PROCESSING STEPS

INFORMATION SYSTEMS RESUME

PART 4

EPA ID NO.	EPA CATEGORY	TYPE OF SYSTEM	SYSTEM OR SUBSYSTEM NAME

55. DESCRIPTIVE NOTATION

56. SUBJECT TERMS -- PUBLISHED AND RETRIEVAL (INCLUDE SIGNIFICANT NAMES OF DATA CONTAINED IN FILES OR REPORTS)

57. SUBJECT TERMS -- RETRIEVAL (UNPUBLISHED)

58. DATA ELEMENT NAMES -- PUBLISHED AND RETRIEVAL

59. DATA ELEMENT NAMES -- RETRIEVAL (UNPUBLISHED)

*U.S. GOVERNMENT PRINTING OFFICE: 1973 514-156/376 1-3