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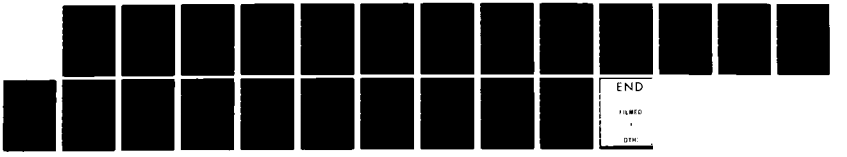

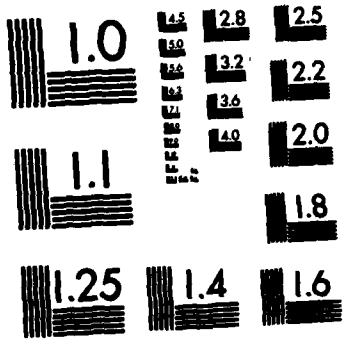

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EDITSPEC SYSTEM MANUAL

Volume 6: Project Manager Procedures

by

E. S. Neely

April 1980

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ABSTRACT

This manual provides the EDITSPEC system project manager with the location of the detailed instructions for managing the EDITSPEC system. It also provides the Computer Services Vendor will all procedures that require modification.

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16. Abstract (Limit: 200 words)

The EDITSPEC System is an automated system designed to produce construction specifications from Corps of Engineers Guide Specifications. The System uses one central computer and a communications network to provide remote terminal access by Corps offices, nationwide to a central data base.

This manual provides the EDITSPEC system project manager with the location of the detailed instructions for managing the EDITSPEC system. It also provides the Computer Services Vendor with all procedures that require modification.

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APPENDIX A - MOVING FROM A COMPUTER SYSTEM

A.1 Job Control Procedure Tape Production

A.2 Source Code Tape Production

A.3 EDSPSIT Procedure

A.4 SIT Job Control Procedure

A.5 SIT Deletion, Creation Procedure

A.6 SIT Execution

A.7 SIT Tape Creation

A.8 EDSPBMT Procedure

A.9 BMT Job Control Procedure

A.10 BMT Deletion, Creation, Installation Procedure

A.11 BMT Execution

A.12 BMT Tape Creation

A.13 Data Base Conversion

APPENDIX B - NORMAL OPERATING PROCEDURES

B.1 Normal Interactive Procedure

B.2 Master Training Interactive Procedure

B.3 Normal Training Interactive Procedure

B.4 Copy master Database over Normal Training Database

B.5 Batch SUBMIT Procedure

B.6 Batch Carol Procedure

B.7 Source and Master Backup Procedure

B.8 Periodic Document Dataset Backup Procedure

B.9 Dataset Restoration - System and EDITSPEC

B.10 Copying an Existing Subroutine

B.11 Compile and Execute - Batch and Interactive

B.12 Add to source library

B.13 Compile source into EDITSPEC

B.14 Dataset Compression

B.15 New Production Release

Chapter 1: Computer Control

The procedures to control computer processing are presented in three sections:

1. Moving From a Computer System.

2. Moving to a Computer System.

3. Normal Operating Procedures.

Moving From A Computer System

The procedures required to move all EDITSPEC related information from the computer storage to tape storage are presented in the order of normal execution. The listing of all procedures is given in Appendix A.

Job Control Procedure Tape Production

All job control procedures should be provided to the prospective bidders in machine readable format. The job control to produce this tape is given in Appendix A.1.

Source Code Tape Production

There are two basic types of source code (1) government written code, and (2) computer services contractor written code. The contractor may have modified government written code; therefore, the contractors routines must be used in lieu of the government routines.

The job control to produce the source tapes is given in Appendix A.2.

System Integration Test (SIT)

Each command in the system must be fully tested to insure that the command works property. This test should be done immediately before bid advertizing. A copy of the input and the correct output must be provided to each prospective computer service vendor. The input is stored in the computer in datasets that have the following naming convention:

.SIT&NAME.IN.DATA(&COMMAND)

The output is stored in dataset that have the following naming convention:

.SIT&NAME.OUT.DATA(&COMMAND)

where

&NAME is replaced by:

(1) SY for system commands

(2) ED for edit commands

(3) IN for internal commands

&COMMAND is replaced by the minimum allowable characters of the command name.

Therefore, three input datasets and three output datasets are stored in the computer.

The input data should be defined as unit 5. There are five output datasets:

(1) Unit 6 contains the basic messages to the user.

(2) Unit 7 is dummyed. The unit was used to write to a 1200 cps printer terminal.

(3) Unit 8 contains printed output to the users terminal.

(4) Unit 9 is dummyed. The unit was used to write to a central site printer.

(5) Unit 10 contains any program dumps due to datahandler errors.

The SIT runs use seven temporary database datasets:

A1SYSTEM

B1SYSTEM

A1SIT

B1SIT

A1DCMNTS

A1DCMNTS

A1MONITR

The catalogued procedure (EDITSPEC) shown in Appendix A.3 is applied to execute each individual SIT run in a batch environment. The Job control to execute the catalogued procedure is shown in Appendix A.4. The &NAME and &COMMAND values are specified as shown on line numbers 40 and 50. The input data is placed between line number 60 and 80 as shown.

The SIT dataset should be deleted and recreated as shown in Appendix A.5. A master computer tape of the input and output datasets should be generated as shown in Appendix A.7. The master tape can be duplicated and provided to the prospective bidders.

Benchmark Test (BMT)

The benchmark test runs are used to compare computer resources and costs. The BMT runs should be performed immediately before bid advertizing. A copy of the input and the correct output should be provided to each prospective computer service vendor. The input is stored in the computer in datasets that have the following naming convention:

.BMT&NAME.IN.DATA

The output is stored in datasets that have the following naming convention:

.BMT&NAME.OUT.DATA

where

&NAME is replaced by:

INIT for system initialization

DIT10 for BMTI

D11 through D55 for BMT2

PROJ for BMT3

Therefore, forty-eight input datasets and forty-eight output datasets are stored in the computer.

The required input and output datasets are the same as defined in the SIT description. The BMT runs apply the following temporary database datasets for the BMT initialization run:

A1TEST1	B1TEST1
A1TEST2	B1TEST2
A1TEST3	B1TEST3
A1TEST4	B1TEST4
A1TEST5	B1TEST5

The BMT runs apply the following permanent database datasets:

Permanently Coded

A1SYSTEM

B1SYSTEM

A1MONITOR

Dynamically Allocated

A1 & B1 datasets for TEST11 through TEST55

A1TEST

B1TEST

The catalogued procedure (EDSPBMT) shown in Appendix A.8 is applied to execute each individual BMT run in a batch environment. The job

control to execute the catalogued procedure is shown in Appendix A.9. The &NAME value is specified as shown on line number 40. The input data is placed between line number 60 and 80 as shown.

The SIT datasets should be deleted, recreated, and initialized as shown in Appendix A.10.

A master computer tape of the input and output datasets should be generated as shown in Appendix A.12. The master tape can be duplicated and provided to prospective bidders.

Database Conversion

The procedures to convert and restore the database are given in the O/M manual. The job control is shown in Appendix A.13 Unit 10 is applied as the conversion tape unit.

Moving to a System

The procedures required to load EDITSPEC related information from tape storage to computer storage area operating system dependent and cannot be explicity defined in this section. The general description follows the section on moving from a computer system. The order should be as follows:

1. Load Job Control Procedure Tape

2. Load Source Code Tape

3. Load SIT Tape

4. Load BMT Tape

Production Procedures

Normal

EDITSPEC operates in both interactive and batch prcessing modes. The normal interactive procedure is shown in Appendix B.1. A master training database has been established and the interactive procedure given in Appendix B.2. The normal training course procedure is shown in Appendix B.3. Before a training course is given, the master trianing database must be copied over the normal trainign database. This procedure is shown in Appendix B.4.

The normal batch procedure for the SUBMIT command is shown in Appendix B.5. The batch procedure from cards is given in Appendix B.6.

Maintenance

Both programs and databses must be maintained. The source programs and the CEGS guide database can be backed up on the 15th and the last day of each month as shown in Appendix B.7. Normal document dataset can be backed up preiodically as shown in Appendix B.8. this procedure must be conducted in sequence with the normal EDITSPEC backup system.

Dataset restoration is shown in Appendix B.9. This procedure must be conducted in sequence with the normal EDITSPEC restoration procedure shown in the Appendix B.9.

Program Modification

Programs can be modified in both batch and/or interactive processing modes. The activities are basically the same for each mode.

The first activity is to create a test source subroutine. This can be performed by copying an existing subroutine as shown in Appendix B.10 or by writing a new program on computer cards.

The test subroutine can be compiled and tested as shown in Appendix B.11.

When the subroutine is completely debugged, it can be added to the source library as shown in Appendix B.12.

The source can be compiled into the EDITSPEC system as shown in Appendix B.13. The above step can be combined as shown in Appendix B.12.

The source datasets require a compression to remove old programs. The procedure is given in Appendix B.14. The compression can be combined with the above two steps as shown in Appendix B.12.

Once the complete test version of the EDITSPEC system has been completely tested, it can be released for production. All batch and

interactive users must be off of the computer system before the procedure in Appendix B.15 can be issued.

Chapter 2: Resource Control

Personnel Management

The project manager is the controller of all personnel within the system. The project manager's user ID is the only user ID that will be permitted to list passwords for other users. Conversion from one computer system to another is allowed to be performed only by the project manager.

The user ID for the supervisor for each office must be assigned by the project manager.

Chapter 3: Operations and Maintenance

It is the responsibility of the project manager to establish all schedules for operating and maintaining the EDITSPEC system. The detailed procedures are given in Volume 7.

Chapter 4: System Enhancement

The project manager has two methods for enhancing the EDITSPEC system. Large and complicated additions can be performed through periodic contracts to software developers. The original system developer could be employed to minimize the cost for the learning of the existing system. Small and minor enhancements may be performed by the maintainers themselves if resources are available. Procedures for enhancement are given in Volume 5, "Conversion and Extension."

Chapter 5: Obtaining A New Computer Service Contract

Planning for a new computer service contract should begin two years before the current contract expires. The required activities are given in Volume 5, "Conversion and Extension."

Chapter 6: Adding A New Office

Providing Information to a Prospective Office

The report entitled "Construction Specification Preparation Within the EDITSPEC System" provides management personnel with a brief description of the computer system. Chapter 5 of this report presents a systematic method for the evaluation and possible application of the EDITSPEC system. The program manager should have a working knowledge of this chapter. The following items might prove beneficial to be provided in an information package:

(1) The above-mentioned report.

(2) A list of contact persons within offices that are currently using EDITSPEC. The persons listed should have agreed to having their names on the list and be willing to share their experiences with others.

(3) A list of current training courses, locations, and dates.

(4) Users manual.

(5) Standard guide specification format definitions.

A person from the "HOT LINE" staff should be assigned to work with the new office in the evaluation process. This person can show where EDITSPEC can save resources within the new office.

Obtaining a Computer Account Number

The person from the project manager's staff working with the new office should provide the office supervisor with the required information to open a new computer service account.

Preparing for the Use of EDITSPEC

New Office

The internal EDITSPEC resources must be established and standard operating procedures adopted. User and supervisor IDs must be established. Project and document naming conventions adopted. Account numbers assigned.

The most important part is the definition of the standard internal coding formats and standard print formats.

Project Manager

The project manager's staff must prepare the required catalog procedures for each office and/or user within the office.

Adding the Office Supervisor

The ".SUPER." command should be used to enter the supervisor of the new office. This supervisor will enter all other users under his control.

Chapter 7: Removing An Existing Office

Saving Existing Documents

The office to be removed may have many documents stored within the system. Some documents may be very valuable to other offices even after this office is removed. All valuable documents should have their creators changed to a person within the supervising office. All other documents should be deleted from the computer.

Deleting Users and Supervisors

All information controlled by this office can be deleted by simply deleting the first-line supervisor for the office.

Computer Access

All access to computer accounts and all cataloged procedures should be removed from the system.

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