DEVELOPMENT OF AN AUTOMATED MICROCOMPUTER
KNOWLEDGE-BASED INTEGRATED CON. (U) NAVAL POSTGRADUATE
SCHOOL MONTEREY CA  R L BEARD MAR 86

UNCLASSIFIED  F/G 9/2  ML
DEVELOPMENT OF AN AUTOMATED MICRO-COMPUTER KNOWLEDGE-BASED INTEGRATED CONFIGURATION MANAGEMENT SYSTEM FOR THE STOCK POINT LOGISTICS INTEGRATED COMMUNICATIONS ENVIRONMENT (SPLICE) PROJECT MANAGEMENT STAFF

by

Robert Lee Beard III

March 1986

Thesis Advisor: Norman R. Lyons
Co-Advisor: Barry A. Frew

Approved for public release; distribution is unlimited
DEVELOPMENT OF AN AUTOMATED MICRO-COMPUTER KNOWLEDGE-BASED INTEGRATED CONFIGURATION MANAGEMENT SYSTEM FOR THE STOCK POINT LOGISTICS COMMUNICATIONS ENVIRONMENT (SPLICE) PROJECT MANAGEMENT STAFF

Robert L. Beard III

Master's Thesis

1986 March

425

SPLICE, Expert System, Knowledge-Based System, Configuration Management System, DBMS

This thesis documents the development of a micro-computer knowledge-based integrated configuration management system for use by Naval Supply Systems Command (NAVSUP) Stock Point Logistics Integrated Communications Environment (SPLICE) Project Staff. A myriad of configuration heuristics associated with the configuration of a SPLICE site are identified. It also provides SPLICE project staff personnel a more accurate, reliable and efficient method of performing the configuration process and managing the overall project. The development of this integrated configuration management system employs both a prototype and software engineering methodology. The integrated configuration management system will be developed using custom generated software and the logical integration of several off-the-shelf commercial software packages.
Approved for public release; distribution is unlimited.

Development of an Automated Micro-computer Knowledge-based Integrated Configuration Management System for the Stock Point Logistics Integrated Communications Environment (SPLICE) Project Management Staff

by

Robert L. Beard III
Lieutenant Commander, Supply Corps, United States Navy
BE CS, University of New Mexico, 1975

Submitted in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN INFORMATION SYSTEMS

from the

NAVAL POSTGRADUATE SCHOOL
March 1986

Author: Robert L. Beard III

Approved by: Norman R. Lyons, Thesis Advisor
Barry A. Frew, Co-Thesis Advisor
Willis R. Greer, Jr., Chairman, Department of Administrative Sciences

Kneale T. Marshall, Dean of Information and Policy Sciences
This thesis documents the development of a micro-computer knowledge-based integrated configuration management system for use by Naval Supply Systems Command (NAVSUP) Stock Point Logistics Integrated Communications Environment (SPLICE) Project Staff. A myriad of configuration heuristics associated with the configuration of a SPLICE site are identified. It also provides SPLICE project staff personnel a more accurate, reliable and efficient method of performing the configuration process and managing the overall project.

The development of this integrated configuration management system employs both a prototype and software engineering methodology. The integrated configuration management system will be developed using custom generated software and the logical integration of several off-the-shelf commercial software packages.
THESIS DISCLAIMER

The reader is cautioned that computer programs developed in this research may not have been exercised for all cases of interest. While every effort has been made, within the time available, to ensure that the programs are free of computational and logic errors, they cannot be considered validated. Any application of these programs without additional verification is at the risk of the user.
TABLE OF CONTENTS

I. INTRODUCTION ----------------------------------------- 7
   A. PURPOSE ------------------------------------------ 7
   B. BACKGROUND -------------------------------------- 8
   C. SCOPE ------------------------------------------- 9

II. CONFIGURATION RULES -------------------------------- 12
   A. BASIC CONFIGURATION RULES ---------------------- 12
   B. UNIQUE CONFIGURATION RULES ---------------------- 16
      1. Hardware -------------------------------------- 16
      2. Software -------------------------------------- 18
      3. Manuals and Documentation --------------------- 19
      4. Training -------------------------------------- 20
      5. Maintenance ------------------------------------ 20
      6. Other ----------------------------------------- 21
      7. Discount and Escalation Rates ------------------ 21

III. METHODOLOGY USED TO DEVELOP THE SYSTEM ---------- 23
   A. PROTOTYPE ---------------------------------------- 25
   B. SOFTWARE ENGINEERING METHODOLOGY --------------- 27
      1. Planning --------------------------------------- 28
      2. Development ------------------------------------ 32
      3. Maintenance ------------------------------------ 34
   C. SUMMARY ----------------------------------------- 37

IV. SYSTEM EXECUTION DIALOGUE ------------------------- 39
   A. SYSTEM INITIATION ------------------------------- 40
   B. CONFIGURE A SITE ------------------------------- 40
C. PERFORM FINANCIAL ANALYSIS ON SITE DATA ---------- 41
D. INTERACT WITH THE CONFIGURATION MANAGEMENT AND REPORT GENERATION SUB-SYSTEM --------------------- 42
   1. Load New Delivery Order Data ------------------- 42
   2. Load Serial Number and Manual Data ---------- 43
   3. Generate a Maintenance Delivery Order ------- 45
   4. Generate a Report ----------------------------- 46
E. REVIEW THE ON-LINE USER'S MANUAL ------------- 46
F. TERMINATE SYSTEM EXECUTION ------------------- 47
V. COST BENEFIT AND EFFECTIVENESS --------------- 48
LIST OF REFERENCES ------------------------------- 53
APPENDIX A: USER'S MANUAL ---------------------- 54
APPENDIX B: MAINTENANCE MANUAL ------------------ 138
BIBLIOGRAPHY ------------------------------------------ 423
INITIAL DISTRIBUTION LIST ------------------------ 424
I. INTRODUCTION

A. PURPOSE

The Naval Supply Systems Command (NAVSUP) Stock Point Logistics Integrated Communications Environment (SPLICE) Project Manager is tasked with the responsibility to oversee, direct and review all aspects of the SPLICE project. More specific responsibilities of the SPLICE Project Manager include:

1. ADP equipment acquisition
2. ADP software development
3. Coordination of installations and implementations with field activities

In order to perform the latter of the above responsibilities, the Project Manager must maintain a complete history of all configuration components and component changes. This requirement applies to each component of hardware, software and documentation for the complete fifteen year life cycle of the project. [Ref. 1]

This thesis is designed to provide the Project Manager the capability to perform these functions in an automated manner. A micro-computer knowledge-based integrated configuration management system is seen as the means to accomplish the task. To aid in the development of such a system and reduce development time and difficulty,
functional off-the-shelf commercial packages, where feasible, were used. The system was also designed as a user-friendly interactive system.

B. BACKGROUND

In 1977, NAVSUP conceived and developed the SPLICE project to accomplish the following goals:

1. Provide state-of-the-art local and long haul telecommunications capabilities to sixty-two NAVSUP Stock Points
2. Provide interactive and distributed automated data processing (ADP) capabilities to SPLICE sites
3. Provide capacity relief to aging Burroughs hosts at the Stock Points
4. Standardize and upgrade, via mass replacement, the myriad of minicomputers existing at Stock Points

To achieve these goals, NAVSUP initiated a competitive solicitation for "fault-tolerant" hardware and software. The solicitation was completed in November 1983 and the contract was awarded to Federal Data Corporation (FDC). FDC proposed TANDEM hardware and software to meet most of the solicitation processing and local communication requirements. Network System Corporation hardware and software were proposed to meet the local inter-host communication requirements.

Shortly after the SPLICE contract award, hardware and software components had to be ordered. NAVSUP faced a dilemma. Only a few SPLICE personnel had worked closely with the SPLICE acquisition benchmark and negotiations.
These few people were the only personnel that had sufficient knowledge of the system to configure and generate delivery orders. These personnel developed initial orders by hand to meet the immediate need. Numerous minor errors were encountered with initial orders. FDC corrected the orders to the government and received additional compensation for their efforts.

This manual configuration process was later automated using a software product called SUPERCALC2. It has subsequently transitioned to LOTUS 1-2-3. The basic method of developing these orders remained virtually manual. These few SPLICE personnel, with FDC assistance, developed a series of "rules of thumb" used to configure individual site systems. Many of the original SPLICE group have moved on, taking their knowledge of the system with them.

C. SCOPE

A knowledge-based integrated configuration management software system designed to run on a micro-computer was proposed by a former Fleet Material Support Office1 (FMSO)

---

1 FMSO is the Central Design Agency for all NAVSUP software development projects. As such, FMSO is responsible for the project development of the SPLICE project under the guidance and direction of the Systems Commander Project Manager, NAVSUP.
The proposed integrated configuration management system will provide NAVSUP with the capability to develop and maintain SPLICE configurations and delivery orders and to perform configuration management for the overall project. The proposed integrated system will be composed of three software modules designed to:

1. Configure initial SPLICE site systems by answering a series of configuration related questions

2. Restructure the system configurer output file into a format compatible for financial and "what-if" analysis

3. Restructure the financial module output file into a format compatible for entry into a data base management system

4. Generate a series of configuration management reports to:
   a. obtain an overall project report
   b. obtain a report for a particular site
   c. obtain a report for a delivery order issued on a particular date

5. Generate a maintenance delivery order for a specific SPLICE site

6. Generate a set of mailing labels for all designated SPLICE sites


2Lieutenant Commander Edward J. CASE, Supply Corps, United States Navy served as SPLICE project officer from September 1981 to August 1984. LCDR CASE was enrolled as a student at the Naval Postgraduate School from October 1984 to March 1986. Much of the research and development of the micro-computer knowledge-based integrated configuration management system is attributed to the prior knowledge, experience and efforts of LCDR CASE.
Development of the micro-computer knowledge-based integrated configuration management system and successful implementation of the configuration heuristics will provide the NAVSUP SPLICE project manager with the capability to perform all assigned configuration management tasks.
II. CONFIGURATION RULES

The success of the knowledge-based integrated configuration management system is largely dependent upon the accurate implementation of the numerous heuristics involved in the configuration of SPLICE site components. Heuristics which must be considered during the configuration process fall into two categories:

1. basic configuration rules which apply to all contract line items under consideration
2. specific configuration rules which apply only to selective contract line items

A breakdown and discussion of these two categories of heuristics is provided below.

A. BASIC CONFIGURATION RULES

A TANDEM processing system consists of a mainframe and its free standing peripherals. A small standard mainframe normally includes two cabinets:

1. processor (CPU) cabinet
2. tape cabinet

The processor cabinet houses the processing units (CPUs) and associated power supplies. The tape cabinet houses a magnetic tape unit, Diagnostic Link control panel, I/O patch panels, battery pack or I/O power supply modules. The I/O patch panels provide attachment points for the signal cables
of various peripherals (ex: CRT terminals, line printers, large capacity disks, etc.). Patch panels are connected to the device controllers residing in the system cabinets through internal cabling.

Additional cabinets (ex: processor, tape, patch panel and expansion) may be added as necessary. Patch panel cabinets provide space for additional patch panels when tape cabinet capacity is inadequate. Generally, mainframe cabinets are fastened together side-by-side to form a single unit.

When two processor cabinets are used in a system and both cabinets contain I/O controllers, additional space for I/O only power supplies may be required. Additional I/O only power supplies may be housed in system expansion cabinets.

System expansion cabinets are required for systems with three or more processor cabinets (or with two processor cabinets connected as noted above). I/O only cabinets must be ordered when system composition reaches four system cabinets. I/O only cabinets may also be necessary to accommodate increased I/O device loads.

Twenty-four I/O slots (four identical backplane assemblies each containing six board slots) are available in a NonStop TXP processor cabinet. The placement of controller boards may result in the need to order additional system or I/O expansion cabinets.
Include one Operations and Service Processor (OSP) with each system.

Every processing unit is supplied with a standard power supply module. The power supply provides several DC voltage levels for use by the CPU, memory and I/O device controllers. No redundant power supply exists for the CPU. Redundancy at the processor unit is obtained with multiple processor units.

In a simple configuration all device controllers are connected to both I/O channels. A simple configuration may be two processors with limited memory and I/O capability.

The I/O channel for a processing unit can accommodate up to thirty-two I/O device controllers. Each device controller can control a maximum of eight devices.

Every I/O controller has two addresses, is dual-ported and is connected to two processor channels.

A one-to-one relationship exists between a controller address and the number of circuit boards it represents with the following exceptions:

1. One 3106 disc controller consists of two boards
2. The 6303 asynchronous controller board accounts for four controller addresses regardless of the number of communications lines it controls. The four controller addresses can represent from one to three boards: one 6303 plus one or two 6304 expansion boards

A fiber optic link (FOX) permits multiple configurations of up to sixteen TANDEM processors each to be directly interfaced. One 6700 FOX controller is required per node.
A special backplane upgrade and replacement is included with the 6700 controller. The FOX controller must reside in the first six (leftmost) I/O slots in the system directly under processor number zero. Any system configuration which includes FOX must consider this requirement. Some such systems may require an additional I/O cabinet to accommodate all controllers. The FOX controller consumes approximately forty-eight amperes of +5 VDC power and may impact the power configuration considerations.

A five strand one-hundred meter air plenum pre-terminated cable, model 7618, should be utilized. The 7618 cable is UL approved for use in air plenum spaces (under raised floors, above false ceilings, etc.) without need for installation in conduit (UL rating VW1). The fifth strand is provided as an integral part of the cable and serves as a spare in case of breakage or intermittent voltage levels.

Terminal communications to the TANDEM hosts is accomplished via specific processor resident ASYNC or SYNC controllers or is off-loaded to a 6100 controller (communications processor).

Network Systems Corporation (NSC) HYPERchannel products enable two or more computer systems to communicate with each other at multi-megabit rates. A HYPERchannel network consists of one or more coaxial cables running the length of the computer room. HYPERchannel adapters are tapped into
the cable and connected to the applicable hosts at designated high speed I/O channel ports. User or NSC software creates the processing sessions among the hosts.

B. UNIQUE CONFIGURATION RULES.

Unique rules must be applied during the configuration process in addition to the basic configuration rules. These additional heuristics apply to all classes of available options (e.g., hardware, software, documentation, etc.). The discussions which follow highlight these additional considerations.

1. Hardware

Unique configuration heuristics described below apply to hardware line items.

1. One to four CPUs require one system cabinet and one patch panel. Each CPU is ordered with two megabytes of memory and is augmented with an additional two megabytes of memory.

2. Five to eight CPUs require two system cabinets, one patch panel and one expansion cabinet.

3. Nine to twelve CPUs require three system cabinets, two patch panels and one expansion cabinet.

4. Larger configurations are built using multiples of the above three rules.

5. The FLOATING POINT ARITHMETIC microcode for FORTRAN processing is only ordered for the two FMSO sites (Sites 02 and 03).

6. An Operations and Service Processor (OSP), with a TANDEM 6530 CRT attached, is ordered for each configuration of sixteen processors or portions thereof. The OSP must be capable of using an
attached Centronics Printer with a printer interface unit that permits switching among two OSPs.

7. Each system cabinet requires three I/O power modules.

8. Each system cabinet has twenty-four slots. Each controller (ex: disk controller, LP/CR controller, etc.) occupies two slots.

9. One disk controller is needed for every two disk units ordered.

10. Disk controllers must be ordered in pairs.

11. One disk patch panel is required for every four disk controllers.

12. HYPERchannel adapters may only be ordered by sites designated as stock points. Available HYPERchannel adapters are listed as follows:
   a. A140 - UNIVAC host interface.
   b. A150 - Burroughs B4800 host interface. An EBCDIC-to-ASCII Conversion RAM board is ordered with each A150 adapter to facilitate TANDEM-to-Burroughs communications.
   c. A220 - IBM host interface.
   d. A400 - Standard minicomputer interface used for TANDEM and PERKIN-ELMER hosts. Each adapter can support up to four CPUs. This is the only adapter which can exceed the one-to-one relationship between processors and adapters.
   e. A510 - FIPS Standard host interface.

   HYPERchannel component pricing is based upon the assumption that the maximum number of components to achieve the maximum discount have already been ordered.

13. Each HYPERchannel cabinet will accommodate up to three adapters. If TANDEM and Burroughs machines are greater than fifty feet apart, a HYPERchannel cabinet is needed for each machine. Coaxial cables in lengths from 500 to 5000 feet may be ordered as needed.

14. One patch panel cabinet is required for every ten patch panels (any type).
15. 6100 Communications Subsystem Base units come with a cabinet with room to accommodate fifteen Line Interface units (LIUs) and two Subsystem Base Add-on units. Each Subsystem Base Add-on unit can accommodate an additional fifteen LIUs. Three cable size options are available for connecting the 6100 Subsystem to hosts. Only the 60M option is ordered. Each Subsystem Base unit and Add-on unit requires two cables.

16. One TANDEM HYPERchannel patch panel is required for every four TANDEM HYPERLINK controllers.

17. One tape controller is needed for every tape drive unit.

18. One LP/CR controller is required for every line printer, card reader or card reader punch unit.

19. All TANDEM 6530 CRTs are ordered with the word processing option.

20. One ASYNC patch panel is required for each ASYNC controller. An ASYNC controller supports two asynchronous ports. At least two ASYNC controllers are required for the OSP and for redundancy. Up to two ASYNC extension boards may be added to each ASYNC controller, if needed.

21. One SYNC patch panel is required for each BYTE SYNC controller. SYNC controllers are ordered in pairs for redundancy.

22. No SYNC patch panels are ordered for BIT SYNC controllers.

23. Communications patch panel/line monitor and ARCLI components are never ordered.

24. One FOX controller is required per node. A single FOX cable connects two nodes.

2. Software

Unique configuration heuristics described below apply to software line items.

1. All FDC software is purchased on a "per site" basis (i.e., pay for the first copy only at any site) and
ordered on a "per processor" basis. This requirement includes Batch, FDC System Utilities, FDC File Security System, FDC TPS SAS, System Card Reader Support and GFE Terminal Support packages.

2. TANDEM software is purchased and ordered on a "per processor" basis. This requirement includes GUARDIAN OS, ENCOMPASS, EXPAND and COBOL packages. TANDEM EXCHANGE RJE HASP software can not be ordered.

3. All 6100 software is ordered on a "per processor" basis. 6100 software versions must be indicated when ordering since versions differ for each site.

4. DDN Service Interface software is ordered on a "per site" basis. DDN Interface Protocol software is ordered on a "per processor" basis.

5. NETEX software packages (feature numbers 550801 through 551302) do not have any warranty period. No maintenance uplift factor should be applied to these software packages. NETEX software ordered will correspond to the NSC HYPERchannel adapters ordered. Pricing for Burroughs NETEX software is set at the maximum discount level. Pricing for TANDEM NETEX software is set at the third level. Pricing for all other NETEX software products are set at the first level.

6. Software maintenance is computed on a "per site" basis.

7. Block Structured Language (PASCAL) and FORTRAN may only be ordered for FMSO Sites 02 and 03.

8. Software components which are part of a bundled package may not be ordered separately.

9. FMSO Configuration Management and Query software may not be ordered.

10. T-TEXT software must consciously be ordered.

3. Manuals and Documentation

Four sets of manuals are available on the SPLICE contract. A predetermined number of manuals has been identified for each site. This predetermined figure is an
element of the input configuration file. Nevertheless, the actual number of manuals desired for a site must be specified during configuration processing. This is necessary since sites may not require the predetermined quantity on the first delivery.

4. Training

Training was originally planned to be ordered on a group basis. Several individual courses may be ordered either in addition to or in lieu of the group package. Such an option is supported for the following courses:

1. Hardware Overview
2. Systems Resource Management
3. Systems Tuning and XRAY
4. Data Communications
5. TANDEM Applications Language (TAL)

The addition of courses in the future will require the modification of source code and the input cost data file. This action will only apply to courses ordered on a unit basis.

5. Maintenance

Maintenance is configured on a component and monthly unit basis with few exceptions. If the normal maintenance option is selected, preventive maintenance and on-call maintenance options have zero values for both quantity and cost. If the normal maintenance is not selected, preventive
and on-call maintenance options are assigned values according to the SPLICE contract. Emergency Per-Call maintenance is specified on an hourly basis. Months of component maintenance varies based upon the warranty period specified in the SPLICE contract.

6. Other

Site Preparation (initial site preparation and installation survey) charges must be specified during the configuration process if desired.

7. Discount and Escalation Rates

Discount and escalation rates specified in the SPLICE contract vary at predetermined levels. These rates vary based upon either elapsed time relative to the contract award date or the quantity of line items ordered. The discount and escalation rates applied to line items during the configuration process must be explicitly specified. The rates entered are added to a value of one to generate the appropriate multiplication factor. Discount rate entries must be entered as negative amounts. The multiplication factor is then applied to a basic rate obtained from an input cost data file.

The heuristics described above apply to contract line items of a fifteen year life cycle ADP contract. As ADP technology is ever and rapidly changing, new requirements and pricing options are negotiated between the
government and the vendor (FDC). Accordingly, modifications to these heuristics will be necessary on a continual basis.
III. METHODOLOGY USED TO DEVELOP THE SYSTEM

The idea to pursue the development of a micro-computer knowledge-based configuration system was fostered by the need to satisfy a group project for a course of instruction in decision support systems (DSS). A member of the group was the former FMSO SPLICE project manager. Familiar with the specifics of the SPLICE project and sensitive to the problems experienced by the NAVSUP SPLICE project management staff, he proposed the development effort. Development of the proposed system would satisfy two purposes:

1. the need to complete a group project for the DSS course

2. provide an automated micro-computer knowledge-based configuration system that would help alleviate some of the NAVSUP SPLICE project staff's work load. Additionally, the proposed system would yield a more accurate, consistent and reliable configuration process.

The initial proposal was to develop a knowledge-based configuration system. No follow on development was planned as part of the initial development. TURBO Pascal was selected as the programming language of choice for the following reasons:

1. all group members were familiar with the language as a result of exposure from a previous programming course

2. a structured programming language was desired for the development effort
3. a language which supported screen-oriented functions and color was desired

4. a language which provided quick response and ease of editing and compilation to reduce development effort and minimize frustration

Other programming languages could have satisfied item 2 through 4 requirements as well, but TURBO Pascal was chosen because of the overriding requirement of item 1. This requirement was felt to be of paramount importance due to the short development time frame involved for the course. Group members felt that familiarity with TURBO Pascal would allow the development effort to be modular and completed more rapidly. The system was completed and was forwarded to NAVSUP for evaluation and comment.

A follow on course of instruction dealing with software engineering methodologies was taken. A course requirement called for the development of a project using a structured software engineering approach to software development. Feedback from the NAVSUP SPLICE project staff was favorable. Comments received indicated a strong potential for the system to significantly improve the currently manual configuration process. Follow on group development of the project was initiated. The group discussed the merits of such a system and decided to pursue development employing the software engineering methodology taught in the course. Discussion for the remainder of this chapter will focus on the entire development effort from commencement of
development to completion of the integrated configuration management system.

A. PROTOTYPE

During the initial discussions and planning of the proposed configuration system, the major concern of group members was whether the vast number of heuristics involved in the configuration process could successfully be automated during the time frame of the course. In order to meet the completion deadline, the programming effort had to be divided between group members. The strategy employed was to break the system down into five basic functional areas. Each functional area would deal with each set of heuristics described in the previous chapter with only minor exceptions. The general heuristics had to be addressed for multiple areas and a few of the smaller areas were consolidated for development efficiency.

The group strategy was to start with the first group of heuristics (hardware) and proceed in an incremental fashion. Development effort would continue until either the prototype system was finished or until the project was due. Since there were so many heuristics involved and no formal structured design or engineering methodology was conducted, there was little certainty of how much of the system would be developed.
Development commenced with the general and hardware heuristics. Initially, development was extremely slow and difficult. General and hardware heuristics encompass the majority of the heuristics associated with the configuration process and are very complex. The incorporation of these areas into the system consumed the largest amount of time during the prototype development effort. Development continued sequentially by area until all areas had been addressed. As each area was implemented, development became easier as members gained confidence and heuristics became less complicated.

As mentioned in the introduction, the initial goal in the development effort was to make the system interactive and as user friendly as possible. The screen oriented features and functions of TURBO Pascal proved to be very beneficial in this endeavor. The use of colors for screen displays helped to differentiate input fields and prompts. The ability to move the cursor anywhere on the screen and control data entry, validation and error messages formats also aided in this effort.

Upon completion of the course, the prototype configuration system was forwarded to the NAVSUP SPLICE project staff for comments and recommendations. Project staff personnel expressed considerable interest in the prototype configuration system. While the configuration system was crude, project staff personnel were enthusiastic
about the potential benefits of the system. Discussions concerning their desire to incorporate other project management functions into the system were addressed.

B. SOFTWARE ENGINEERING METHODOLOGY

The software design course requirement to develop a software system using a structured methodology coincided closely with the receipt of the NAVSUP list of comments, recommendations and additional features. Further development of the system was accomplished using a programming team concept in conjunction with the software engineering methodology.

The software engineering methodology used in the development effort is a three phased structured approach encouraged by Pressman:

1. Planning - the definition, analysis, specification, estimation and review of a process. Planning provides a preliminary indication of project viability in relationship to cost and schedule constraints

2. Design - a process of applying various techniques and principles for the purpose of defining a device, a process, or a system in sufficient detail to permit its physical realization

3. Maintenance - the diagnosis and correction of errors (corrective); the modification of software to properly interface with a changing environment (adaptive); or the incorporation of recommendations for newer capabilities, modifications of existing functions, or general enhancements following the successful development of software (perfective)
Each phase of the structured methodology is designed to minimize the difficulties associated with the software development effort. [Ref. 2]

1. Planning

The first step of the software engineering methodology is the planning process. During this phase of software development, the group commenced the detailed planning of the functions that were to be incorporated into the system. Initial discussions centered around the level of complexity to be attempted for the course project. During these discussions, comments, recommendations and additional features provided by the SPLICE project staff were reviewed and scoped for level of complexity.

Initial planning efforts generated a proposal to develop an integrated interactive and user-friendly system that would be composed of three major functional modules:

1. Configuration module
2. Financial analysis module
3. Configuration Management System module that would support report generation

Detailed functions for each module were further specified. Individual member previous experience and strengths were evaluated. The group was organized into a programming team concept. Each member was assigned tasks which best corresponded to his level of experience and knowledge with respect to development tasks.
Once the system functional modules were identified, the next step involved the selection of software to implement the development effort. Based upon the effort that had been expended and the enthusiasm exhibited with the prototype development, a decision was made to continue development of the configuration module using TURBO Pascal. SCREEN SCULPTOR\(^3\) was selected for the purpose of developing customized screens for the configuration module. It also employed a data entry and validation feature that could be incorporated into the configuration module with little effort. LOTUS 1-2-3 was selected as the software package for development of the financial analysis package. This selection was based upon the fact that the package was owned by a member of the group who was familiar and experienced in its use. dBASE III was selected for development of the Configuration Management module. Reasons surrounding this choice were:

1. the package was owned and readily available

2. it could be used as a shell to call and run other software packages from as well as perform the functions of configuration management using data base technology

---

\(^3\)SCREEN SCULPTOR is a software product available from The Software Bottling Company of New York. 6600 Long Island Expressway, Maspeth. NY 11378 (718) 458-3700. SCREEN SCULPTOR is a programming productivity tool that enables programmers to design and create input screens in minutes in either BASIC, IBM Pascal or TURBO Pascal.
3. FLASH CODE, a commercial screen generation software package was available and could support the generation of customized screens and perform data entry validation for both dBASE II and dBASE III. The use of such a package would help minimize development effort and ensure correct data entry.

4. dBASE III could support ten open files concurrently.

5. no other data base management software package was available that either provided the capability to customize screens to the degree desired and support an interface to FLASH CODE.

WORDSTAR was selected as the word processing software package that would be used to enable the user to view the User's Manual on-line. All packages with the exception of the two screen generation development packages were currently being used by SPLICE project staff personnel and required little investment in time to learn new packages or the outlay of funds.

Selection of the software packages posed some problems which had to be overcome prior to further development. LOTUS 1-2-3 and dBASE III both required special file formats and interfaces between input and output of each functional module. Special conversion procedures had to be developed to overcome these interface difficulties.

FLASH CODE is a software product available from The Software Bottling Company of New York, 6600 Long Island Expressway, Maspeth, NY 11378 (718) 458-3700. FLASH CODE is a programming productivity tool that provides dBASE II or dBASE III programmers the capability to use either screens or pop-up windows/help menus that instantaneously flash up on the screen.
The Pascal configurer module had to be developed to generate an output file that would allow the viewing and processing of both text and numerical fields when imported into LOTUS 1-2-3. The output file from the LOTUS 1-2-3 financial analysis module stripped off all text and header data following financial verification and saved as a "PRN" data file. A dBASE III work data base had to be created using a structure that was compatible with the "PRN" data file. This "PRN" file was later appended to the dBASE III work data base and converted to a dBASE III data entry format.

With the module interfaces resolved, each functional module was further developed and refined to identify all data elements involved with the functional process. Data flow diagrams documenting all required data elements and processes were generated for each functional module. Two data flow diagrams are provided in Appendix B to serve as representative examples of this process. Each data flow, input file and functional process was further specified in detail through the use of various module descriptions. An example of each of these description modules is provided in Appendix B. The formats of each of the descriptions used in the definition process were modifications of formats specified in [Ref. 2] and [Ref. 3]. A Bachman diagram, supplied in Appendix B, was used to document the data base relationships associated with the configuration management.
module. The generation of all functional module data interdependency charts signaled the completion of the planning phase.

2. Development

With the definition of all data element relationships, interdependencies and functional interfaces defined, the group commenced the development phase of the methodology. Using the data flow diagrams, data flow and process descriptions generated during the planning phase, each data process or bubble was decomposed into more detailed sub-functional processes.

Sub-functional processes were developed by exploding each bubble from the data flow diagram and decomposing the process to its lowest functional level through several layers of abstraction. The lowest levels of abstraction are procedure oriented and are stated in terms that can be directly implemented. Several guidelines for the process are involved and are outlined in Pressman [Ref. 2]. The overall objective of this decomposition process was to arrive at a description of each functional process to a level that would support modular development. Appendix B contains a few structure charts which are representative examples of the decomposition process.

The idea behind decomposing each process to its lowest functional description is to ensure that the scope of
effect\textsuperscript{5} of a module is maintained within the scope of control\textsuperscript{6} of that module [Ref. 2]. Another concept of the engineering methodology designed to aid in the development and maintenance of software systems is that of information hiding\textsuperscript{7}. These concepts were applied to the design phase of development to ensure modularity of the system. The structure of the system was designed in a way that would facilitate future maintenance.

With all processes defined, team members began coding the various modules. Coding was accomplished in a top-down modular fashion to facilitate a phased implementation plan. As each module was completed, it was integrated into the overall system and tested to ensure accurate performance. Coding continued until the project was due for submission. At the end of the course, the configuration and financial analysis modules were complete. The third module, the data base configuration management system, had a basic structure that would support a minimal number of configuration reports. This module would be

\textsuperscript{5}Scope of effect of a module is defined as how other modules are affected by decisions which are made within the module. [Ref. 2: p. 170]

\textsuperscript{6}Scope of control of a module is the number and degree of control which is exerted on other modules by the controlling module. [Ref. 2: p. 170]

\textsuperscript{7}Information hiding is the concept whereby procedures and data information within a module are invisible to other modules. This concept helps achieve modularity during development. [Ref. 2: pp. 156-157]
finished as a follow on project under the maintenance phase. The system was forwarded to the SPLICE project staff for evaluation.

3. Maintenance

The structured design and development methodology employed in the development of the micro-computer knowledge-based integrated configuration management system proved to be very beneficial. Completion of the data base configuration management module was straightforward due to this design methodology.

The data base configuration management system was completed as a follow on project for a course of instruction in data base design. Since a foundation already existed as a result of the initial system development, continued development fell into the category of maintenance. The development of the configuration management module used three methods of maintenance. Each maintenance category is defined briefly in the methodology introductory discussion near the beginning of this chapter.

Continued development of the configuration management module was undertaken. Feedback from the SPLICE project staff highlighted errors which required correction - corrective maintenance. Also, due to contract negotiations and modifications, certain heuristics required modification - adaptive maintenance. Additionally, the data
base design course highlighted more efficient methods of accomplishing functional processes in lieu of methods used during the development phase of the system - adaptive and perfective maintenance.

The maintenance effort and system enhancements proposed by the NAVSUP SPLICE project staff were reviewed and evaluated for level of implementation difficulty. Each change was classified according to the type of maintenance involved. A development schedule was established and development effort continued.

The first maintenance actions addressed were corrective maintenance issues. Each potential error was evaluated in terms of its impact on the basic system structure. Errors were also evaluated in terms of whether the condition fell within the initial capabilities designed for the system. Some of the potential errors were found to be outside the scope of the initial design and were not attempted. SPLICE project staff personnel were informed of these conditions and were instructed on how to deal with the conditions.

Changes to the initial environment were addressed next. Contract negotiations are continuing and result in contract modification requirements. These modifications were evaluated to identify the degree of modification required to the basic system structure. While some modification was required, the majority of the changes
involved the configuration module. The decomposition of the logical functions to their lowest levels coupled with the high degree of cohesion\(^8\) and low degree of coupling\(^9\) of both modules and data made maintenance almost effortless.

The last maintenance area involved refining the methods by which tasks were performed. Knowledge gained from the data base design course identified more efficient means of accessing certain files. Also, certain initial relationships did not follow the relational normal forms associated with relational data base design [Ref. 4] and [Ref. 5]. Thus, certain files had to be restructured. Other changes involved eliminating unnecessary statements and optimizing certain functions, loops and file accesses. Modification of certain file accesses resulted in the reduction of response times in some cases by eighty to ninety percent.

Completion of the data base configuration management module marked the final development of the micro-computer knowledge-based interactive configuration management system for the SPLICE project. NAVSUP SPLICE project staff personnel have the system and are currently using the system.

\(^8\)Cohesion is a measure of the relative functional strength possessed by a module (i.e. a cohesive module should only perform one thing or function) [Ref. 2: p. 158]

\(^9\)Coupling is a measure of the relative interdependencies between modules (i.e., the degree to which other modules are dependent upon interfaces and data) [Ref. 2: p. 161]
for initial configurations. Once current sites under configuration are loaded to system data bases, sites previously configured will be loaded. The SPLICE project manager now has the capability to configure sites, perform financial and "what-if" analysis and generate a wide variety of reports to aid in the management of the project. The system report generation facility also enables the project manager to track components by serial number and location. The development of the micro-computer knowledge-based interactive configuration management system has provided the SPLICE project manager with the capability not only to evaluate overall project performance, but also to evaluate the contract vendor's performance with regard to contract requirements.

C. SUMMARY

The development of the micro-computer knowledge-based interactive configuration management system involved several different development methodologies. The success of its development could not have been realized without the inclusion of all methodologies.

Prototyping, while not a solution by itself, identified several problems with the original system design and data entry method. It also highlighted several areas which required modification to achieve the goal of developing a user-friendly system.
The execution of the software engineering methodology described by Pressman [Ref. 2] helped to identify all of the functional tasks for logical incorporation into the system. The use of the various module descriptions identified all of the essential data elements, flows and processes. The use of these descriptions further helped to minimize development time and prevent needless rework. Incremental implementation of completed modules kept the development effort on schedule. The use of commercially proven and tested "off-the-shelf" packages further helped to minimize the development effort.

The SPLICE micro-computer knowledge-based interactive configuration management system is an active system. As with any software system, maintenance must be performed to maintain the system current with its operational environment. The SPLICE configuration management system is no different. Due to a changing environment and requests for further enhancements to the system, a backlog of changes currently exists.

Due to the methodologies used in the design and development of the SPLICE configuration management system, the backlog and future changes should be able to be incorporated into the system with minimal confusion or effort.
IV. SYSTEM EXECUTION DIALOGUE

As discussed in previous chapters, the micro-computer knowledge-based configuration management system is an interactive and user-friendly system. Additionally, the system is an integrated system composed of three functionally separate modules:

1. configuration module - developed using TURBO Pascal
2. financial and "what-if" analysis module - developed using LOTUS 1-2-3
3. configuration management and report generation module - developed using dBASE III

Integration of the system was possible through dBASE III's ability to run other programs during system execution. This feature allowed dBASE III to be used as the shell or driver for the system.

Following discussions describe a typical system execution dialogue. All screen formats mentioned or referenced may be found in Attachment 2 of Appendix A. The system has no on-line help facility other than the on-line User's Manual. Review of the User's Manual may only be accomplished from the system's opening menu (Screen 1). Detailed information regarding system execution is addressed in Appendix A.
A. SYSTEM INITIATION

With initial installation complete and the target system's power on, type the command SPLICE at the DOS command prompt to initiate system execution. The first screen viewed is the Function Selection Menu - Screen 1. From this menu, the user may select any one of six possible options.

B. CONFIGURE A SITE

The first function normally performed would be to configure a site for SPLICE installation. This action is accomplished by selecting menu option 1 from the Function Selection Menu. Selection of this option invokes the Pascal Configuration Module. The user, having accumulated the applicable data for the site to be configured and recorded the information on a copy of Attachment 1 of Appendix A, would commence the configuration process.

The user would first see a module logo and version screen (Screen 2) followed by five data entry screens (Screens 3 through 8) and a final output screen (Screen 9) identifying the output file name to be imported into the financial analysis module. The data field sequence of Attachment 1 to Appendix A is in the sequence of data entries expected for screens 3 through 8.

Screen 3 is a list of designated SPLICE sites. Screens 4 through 8 are the applicable data entry screens. Data
entry is segmented into component and data types (ex: discount and escalation rates, hardware, software, etc.). The output data file name is presented as part of the final display to the configuration module (Screen 8). The output file is formatted for data entry into the financial analysis module. Following completion of the configuration process, the user is returned to the Function Selection Menu.

C. PERFORM FINANCIAL ANALYSIS ON SITE DATA

Financial analysis and delivery order preparation is the next function to be performed. Selection of menu option 2 from the Function Selection Menu invokes the execution of the financial analysis module using the LOTUS 1-2-3 system. The output file previously generated from the configuration module may then be viewed.

Several LOTUS macros, described in detail in Appendix A, enable the configuration module calculations and computations to be verified. "What-if" analysis may also be performed to evaluate the impacts of system costs relative to options selected and/or modify a system configuration to coincide with the current funding environment. Screen 13 is a partial example of how the data is presented in the financial analysis module. Upon completion of the configuration analysis, the data file is formatted for input into dBASE III data base files. Following financial
analysis termination, the user is returned to the Function Selection Menu (Screen 1).

D. INTERACT WITH THE CONFIGURATION MANAGEMENT AND REPORT GENERATION SUB-SYSTEM

Execution and interaction with the configuration management and report generation sub-system is invoked by selecting menu option 3 from the Function Selection Menu (Screen 1). The Process Selection Menu (Screen 14) is displayed and reveals nine additional options from which to choose.

1. Load New Delivery Order Data

The most common option to select will be menu option 1 - load the formatted file from the financial analysis module to the various data bases. The process is menu driven requiring answers to a few questions presented on screens 15 and 16. The data loading process adds new records to three data bases. If the input file is very large, the loading process may be lengthy.

Completion of loading data to the three data bases signals the interim completion of the configuration process for a site. No further data for the site may be loaded to the data bases until the equipment is received at the site. From this point, the user may return to the Process Selection Menu and obtain any of several reports extracted
in a variety of formats or return to the Function Selection Menu and choose another processing option.

2. **Load Serial Number and Manual Data**

Following the receipt of ordered components at the applicable site, the user may load the serial numbers of the hardware components and the names of the accompanying hardware and software manuals received. This function is a two step process.

Serial numbers may be loaded to the serial number data base by selecting menu option 6 from the Process Selection Menu, whereby the Serial Number Maintenance Menu (Screen 32) is displayed. Selection of menu option 1 results in the presentation of the Serial Number Update Format screen (Screen 33). To enter the applicable serial numbers, the user must provide the system with three data elements to load the serial number data:

1. site number
2. effective date of the applicable delivery order
3. feature number of the component

Once all three data elements have been entered, the serial number may then be entered. This process must be iterated for each serial number to be loaded to the data base. Since neither serial number nor manual information is available during the initial data load process, it is necessary to specify all three serial number data elements to ensure data
and file integrity. Following entry of the last serial number, the user terminates the update process by selecting the exit (X) option. This returns the user to the Serial Number Update Format screen (Screen 33). The user may either review the serial numbers just entered or return to the Process Selection Menu to initiate the loading of the applicable manual data.

Following entry of the serial number data, the applicable manual description data may be loaded to the Manual database. This is accomplished by selecting menu option 5 from the Process Selection Menu, whereby the Manual Maintenance Menu (Screen 27) is displayed. To add manual descriptions to the manual database, select menu option 1. The Manual Addition Format screen (Screen 28) is displayed. To enter the manual descriptions, first enter the applicable site number followed by the associated feature number for the manual description to be loaded.

Following entry of the last manual description, terminate the addition process by selecting the exit (X) option. This returns the user to the Manual Maintenance Format screen (Screen 27). The user may either review the manual descriptions just entered or return to the Process Selection Menu to initiate another process selection.
3. **Generate a Maintenance Delivery Order**

At the commencement of each fiscal year, the NAVSUP SPLICE project staff must initiate a delivery order to cover the maintenance and rental services for the current fiscal year for each configured SPLICE site. To accomplish this task, select menu option 8 from the Process Selection Menu (Screen 14). The Maintenance Delivery Order Generation Program screen (Screen 66) is presented and requires five inputs. First, the applicable site number for which the maintenance delivery is to be generated is entered. Then four discount or escalation rates are entered. These rates are based upon pre-determined terms negotiated in the SPLICE contract. These rates are based upon total number of components ordered and the elapsed time relative to the contract award.

A new formatted file (NEWDO.PRN) is generated to be imported into the financial module where computations and calculations are verified in the same manner discussed in section C above. Once the data has been verified financially correct in the financial module, the maintenance delivery order is ready to be printed. Program execution then automatically returns the user back to the Process Selection Menu where another process selection may be made.
4. Generate a Report

A variety of eight different reports are available from the report generation sub-system. Reports are available for:

1. the overall project
2. a particular site
3. a delivery order issued on a particular date

Within these categories, reports may further be broken down by:

a. equipment type
b. serial number

Delivery order equipment type reports may be obtained either with or without unit price data in the report.

The generation of any one of the eight available reports is obtained by initially selecting menu option 7 from the Process Selection Menu, whereby the Report by Type Menu (Screen 36) is displayed. Depending on the type of report desired, further menu options are selected. Screens 36 through 65 are examples of the various menus and report formats that are obtainable from the report generation system but are not discussed in detail.

E. REVIEW THE ON-LINE USER'S MANUAL

The on-line User's Manual may be viewed any time the user is viewing the Function Selection Menu (Screen 1). As stated before, no on-line help facility is available during
functional module execution. The on-line User's Manual uses WORDSTAR as the word processing package to display system execution instructions to the user. As such, the ability to jump to a specific page or process description does not exist. Following termination, the user is returned to the Function Selection Menu (Screen 1).

F. TERMINATE SYSTEM EXECUTION

When all system functions have been performed and the user desires to terminate system execution, two options are available. Menu options 5 and 6 on the Function Selection Menu (Screen 1) allow the user to either terminate system execution and return to the dBASE III environment (dot prompt) for further interactive queries or terminate system execution and return to the DOS operating environment. The most common selection will likely be to terminate system execution and return to the DOS operating environment.
V. COST BENEFIT AND EFFECTIVENESS

Prior to the development of the micro-computer knowledge-based integrated configuration management system for the NAVSUP SPLICE project staff, the first eight of a possible sixty-two initial site configurations were processed in a semi-automated fashion. While LOTUS 1-2-3 was used as the medium to produce the final form delivery order, a considerable amount of the heuristic processing still was manual. The developed system eliminates all such manual processing, except for gathering the initial sizing study input data.

Within the NAVSUP SPLICE project staff, one mid-grade GS-12 government employee is currently responsible for all SPLICE site configuration processing, project configuration management and vendor contract performance monitoring. Average annual salary for this grade level for a step five position is approximately thirty-six thousand dollars.

In the current phase of the project life cycle, sites are being configured for their initial equipment and associated software components. Existing sites with initial configurations require maintenance delivery orders generated to support continuing maintenance services on an annual basis. As mentioned in the introduction, errors discovered in delivery orders submitted to the vendor for processing
are corrected, with an additional charge\(^{10}\) levied upon the government for the additional service. Due to the minimum number of sites that have been configured and are in operational status, there currently is little configuration management being performed.

To evaluate the benefit and effectiveness of the developed system, certain (worst case) assumptions are made:

1. based upon previous experience, each delivery order supplied to the vendor will contain errors
2. the government will incur a five thousand dollar additional charge for vendor corrections to initial configuration delivery orders containing errors
3. the government will incur a one thousand dollar additional charge for vendor corrections to maintenance delivery orders containing errors (no experience exists to evaluate the accuracy of this assumption and is therefore an anticipated worst case assumption)

Since only a few of the designated sites are currently operational, the one GS-12 employee has managed to keep pace with the work load. Without the development of the micro-computer knowledge-based integrated configuration management system, this effort would not be possible and

\(^{10}\)Charges of up to five thousand dollars per delivery order to correct existing errors have been experienced.
would most likely require the hiring of another lower grade employee on a full time basis\textsuperscript{11} in the future.

During the next two calendar years, the remaining initial site configurations are going to be processed.\textsuperscript{12} Figures based on the worst case assumptions stated above, suggest that the developed system has the potential to yield savings of close to two-hundred and fifty thousand dollars for the initial configuration process alone. Since each site must have a maintenance delivery order generated each fiscal year to account for increases or decreases in maintenance rates for services, the potential exists to realize additional savings of approximately sixty thousand dollars for each remaining year of the project life cycle.

The SPLICE contract contains predetermined discount and escalation rates which were negotiated and written into the contract. Certain discounts depend upon the quantity of components previously ordered and are graduated according to predetermined procurement levels. The ability of the GS-12 employee to currently identify these discount levels is

\textsuperscript{11}Once all SPLICE sites have been configured for initial equipment and component installation, configuration management within the project will come to the forefront. Due to the large number and variety of components that may exist for any site which can have an impact on the discounts that are applicable to component, this phase of contract monitoring and execution becomes critical in terms of cost effectiveness.

\textsuperscript{12}Approximately twenty sites are scheduled for configuration during CY 1986 and approximately thirty sites are scheduled for configuration during CY 1987
accomplished solely through a manual process. Each delivery order previously issued has to be manually totaled to arrive at each component's project procurement total. Through the developed system's report generation facility, potential discounts can be identified in a matter of seconds. The potential savings that may be realized in this manner are difficult to quantify. I feel that it is safe to say that over the life cycle of the project, substantial savings as a result of this new capability can result.

The developed system provides the NAVSUP SPLICE project staff with the ability to monitor the vendor's performance relative to contract specifications and perform configuration management for the overall project. While the contract provided a configuration management package line item for these services, development of the system precludes the need to procure the option priced at roughly one-hundred thousand dollars.

The developed system provides the project staff with extensive capabilities needed to properly execute their functions as overseers of the contract and does so in an automated and efficient manner. These capabilities are believed to be developed to a level that will allow the existing project staff employee to perform these functions in roughly half the time experienced prior to system implementation. This increased efficiency should realize a
minimum savings of approximately eighteen thousand dollars each year for the project staff budget.

As seen from the above analysis, the development and implementation of the micro-computer knowledge-based integrated configuration management system for use by the NAVSUP SPLICE project staff provides a more efficient method with increased capability to effectively execute project manager responsibilities and monitor vendor performance. Potential savings realized through the use of this system will be at least eighteen thousand dollars annually for the next few years with the potential to save two-hundred and fifty thousand dollars in the initial configuration process and sixty thousand dollars in annual maintenance modifications.
LIST OF REFERENCES

1. Naval Supply Systems Command Letter UNCLASSIFIED
   0472/DAF 5232 Serial 1485U to Naval Data Automation
   Command (NAVDAC 12). Subject: Request for Life Cycle
   Management (LCM) Milestone III Approval of the Stock
   Point Logistics Integrated Communications Environment
   (SPLICE) Project (U), Enclosure (2). pp. 2-1 to 2-5. 1
   March 1985.

   Inc. 1982.

3. Yourdan, E., and Constantine, L., Structured Design,

4. Kroenke, David M.. DATABASE PROCESSING: Fundamentals,
   Design Implementation, 2d ed., pp. 286-330,

   Relational Database Theory,"
   Communications of the Association for Computing
APPENDIX A

THE NAVAL SUPPLY SYSTEMS COMMAND
STOCK POINT LOGISTICS INTEGRATED COMMUNICATIONS ENVIRONMENT
(SPLICE)
SYSTEM CONFIGURER AND CONFIGURATION MANAGEMENT SYSTEM
USER'S MANUAL

Document No. BBC - 01
1 January 1986
APPENDIX A: USER'S MANUAL

Record of Changes

Original 1 January 1986
## List of Effective Pages

<table>
<thead>
<tr>
<th>Page Range</th>
<th>Original</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page 1 through 44</td>
<td></td>
</tr>
<tr>
<td>Page A1-45 through A1-49</td>
<td></td>
</tr>
<tr>
<td>Page A2-50 through A2-83</td>
<td></td>
</tr>
<tr>
<td>Page A3-84</td>
<td></td>
</tr>
</tbody>
</table>
Acknowledgements

1-2-3 is a registered trademark of Lotus Development Corporation.

dBASE II and dBASE III are registered trademarks of Ashton-Tate.

Flash Code and Screen Sculptor are registered trademarks of The Software Bottling Company of New York.

Turbo Pascal is a registered trademark of Borland International

Wordstar is a registered trademark of MicroPro International Corporation.

Zerodisk is a registered trademark of Quaid Software Limited.
Recognition

The development of the integrated SPLICE Configuration Management System involved several people. The effort devoted to the finished product was spread over a nine month period. The system was also used to satisfy project assignments in several core courses leading to the receipt of the Master of Science degree. Recognition is acknowledged for the persons listed below for their participation in the completion of the SPLICE Configuration Management System.


Lieutenant Commander Winston H. Buckley, Supply Corps, U. S. Navy - programming team librarian, documentation generation.


Lieutenant Commander Gary R. Harmeyer, Nurse Corps, U. S. Navy - dBASE III programming assistant, document generation.

# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record of Changes</td>
<td>2</td>
</tr>
<tr>
<td>List of Effective Pages</td>
<td>3</td>
</tr>
<tr>
<td>Acknowledgements</td>
<td>4</td>
</tr>
<tr>
<td>Recognition</td>
<td>5</td>
</tr>
<tr>
<td>Table of Contents</td>
<td>6</td>
</tr>
<tr>
<td>Introduction</td>
<td>9</td>
</tr>
<tr>
<td>Background</td>
<td>9</td>
</tr>
<tr>
<td>Why The System Configurer and Configuration Management System</td>
<td>9</td>
</tr>
<tr>
<td>Input Data</td>
<td>11</td>
</tr>
<tr>
<td>SPLICE System Configurer and Configuration Management System Files</td>
<td>11</td>
</tr>
<tr>
<td>System Preparations</td>
<td>14</td>
</tr>
<tr>
<td>System Execution</td>
<td>14</td>
</tr>
<tr>
<td><strong>FUNCTION 1:</strong> Execute the Pascal Configurer</td>
<td>15</td>
</tr>
<tr>
<td><strong>FUNCTION 2:</strong> Perform LOTUS 1-2-3 Financial or &quot;What-If&quot; Analysis</td>
<td>18</td>
</tr>
<tr>
<td><strong>FUNCTION 3:</strong> Execute the dBASE III Configuration Management System</td>
<td>23</td>
</tr>
<tr>
<td>1. Load a new Deliver Order into the Configuration Management System</td>
<td>24</td>
</tr>
<tr>
<td>2. Perform maintenance on the Equipment File</td>
<td>25</td>
</tr>
<tr>
<td>a. Modify an Equipment File record</td>
<td>25</td>
</tr>
<tr>
<td>b. Review an Equipment File record</td>
<td>26</td>
</tr>
<tr>
<td>3. Perform maintenance on the Equipment Description File</td>
<td>27</td>
</tr>
</tbody>
</table>
APPENDIX A: USER'S MANUAL

4. Perform maintenance on the Site Name File ------- 28
   a. Modify a Site Name File record ------------------ 29
   b. Review a Site Name File record ------------------ 29

5. Perform maintenance on the Manual File --------- 30
   a. Add a new manual description record -------------- 30
   b. Update a manual description record -------------- 31
   c. Delete a manual description record -------------- 32
   d. Review a manual description record -------------- 32

6. Perform maintenance on the Serial Number File ----- 33
   a. Modify a Serial Number File record -------------- 33
   b. Review a Serial Number File record -------------- 34

7. Generate reports for the Project, a specific site or a particular date ------------------------- 35
   a. Overall Project reports ---------------------- 35
      (1) Reports by Equipment type ------------------ 36
      (2) Reports by Serial Number --------------------- 36
   b. Reports for a Particular SPLICE Site ---------- 37
      (1) Reports by Equipment type ------------------ 37
      (2) Reports for Manuals ------------------------- 38
      (3) Reports by Serial Number --------------------- 38
   c. Report for a Delivery Order issued on a particular date ---------------------------------- 39
      (1) Report by Equipment type with unit prices ---- 39
APPENDIX A: USER's MANUAL

(2) Report by Equipment type without unit prices -- 40

(3) Report by Serial Number ------------------------ 41

8. Generate a Maintenance Delivery Order for a specific SPLICE site ------------------------ 41

9. Generate Mailing Labels for all SPLICE sites ------- 42

FUNCTION 4: View the on-line User's Manual ---------- 43

System Output -------------------------------------- 43

Exception Reports ---------------------------------- 43

Limitations ---------------------------------------- 43

Command Sequence ---------------------------------- 44

Who To Call ---------------------------------------- 44

Attachments:

1. Selection Criteria for SPLICE Configurations ---- A1-45

2. Screens Formats --------------------------------- A2-50

3. Installation Procedures ------------------------- A3-84
1.0 Introduction.

This manual is designed to provide information and guidance to the SPLICE integrated system user. The integrated system components include: 1 - the SPLICE System Configurer, 2 - the LOTUS 1-2-3 financial and "what-if" analysis system, 3 - the dBASE III Configuration Management System, and 4 - the Wordstar on-line User's Manual.

1.1 Background.

The Naval Supply Systems Command (NAVSUP) conceived and developed the Stock Point Logistics Integrated Communications Environment (SPLICE) project. The SPLICE project purpose is to:

a. Provide state-of-the-art local and long haul telecommunications capabilities to 62 NAVSUP Stock Points.

b. Provide interactive and distributed ADP processing capabilities to SPLICE sites.

c. Provide capacity relief to aging Burroughs hosts at the Stock Points.

d. Standardize and upgrade, via mass replacement, the myriad of minicomputers existing at Stock Points.

NAVSUP initiated a competitive solicitation for "fault-tolerant" hardware and software to achieve these goals. The solicitation was completed in November 1983. The winning vendor, Federal Data Corporation (FDC), proposed TANDEM hardware and software to meet most of the solicitation processing and local communications requirements. FDC proposed Network System Corporation hardware and software to meet the local inter-host communications requirements.

1.2 Why The System Configurer and Configuration Management System.

Shortly after the SPLICE contract award, hardware and software components had to be ordered. NAVSUP faced a dilemma. Only a few SPLICE personnel had worked closely with the SPLICE acquisition benchmark and negotiations. These few people were the only personnel that had sufficient
knowledge of the systems to configure and generate delivery orders. These personnel developed initial orders by hand to meet the immediate need. Many minor errors were encountered with these initial orders. FDC corrected and returned the orders to the government and received additional compensation for their efforts.

This manual configuration process was later automated using a software product called SUPERCALC2. It has subsequently transitioned to LOTUS 1-2-3. The basic method of developing these orders remained virtually manual. These few SPLICE personnel, with FDC assistance, developed a series of "rules of thumb" used to configure individual site systems. Many of the original SPLICE group have moved on, taking their knowledge of the systems with them.

This SPLICE Configurer and Configuration Management System software is a knowledge based system designed to codify these "rules of thumb". This integrated system will enable NAVSUP to develop and maintain SPLICE configurations and delivery orders and perform configuration management on the project. Three software products were created in this phase of development to:

a. Configure initial SPLICE site systems by answering a series of questions. SPLICE.COM (written in TURBO Pascal) produces structured delivery orders that must be imported into LOTUS 1-2-3. LOTUS 1-2-3 performs financial review and analysis before loading the dBASE III Configuration Management data bases.

b. Restructure the SPLICE.COM output file into LOTUS 1-2-3 format. A series of macros assist in the regeneration of the delivery order into LOTUS standard formula format. Following the conversion, three options exist: 1 - print the delivery orders, 2 - prepare archival files, or 3 - prepare the output file needed for the dBASE III Configuration Management system.

c. Restructure the LOTUS 1-2-3 output file into dBASE III format. dBASE III command language modules import and convert the LOTUS output file into dBASE III format. They also either generate or update the three dBASE III Configuration Management data bases. This allows the user to generate selected configuration management reports from the three data bases. MAINTDO.PRG, a dBASE III module, generates maintenance delivery orders from the configuration management data bases. These maintenance delivery orders
APPENDIX A: USER's MANUAL

must be imported into LOTUS 1-2-3 for final financial review and analysis.

2.0 Input Data.

The following paragraphs describe the integrated system data input requirements. The following discussion describes the files required to execute the system and the associated screen formats.

2.1 SPLICE System Configurer and Configuration Management System Files.

The SPLICE System Configurer and Configuration Management System can only be run on a hard disk system, with the following minimum files (refer to Attachment 3 for system installation procedures):

GROUP 1 FILE-IDs (SPLICE Configurer)

a. COSTS.IN  
b. CONFIG.SIT  
c. SPLICE.COM  
u. SPLICE.SCR

GROUP 2 FILE-IDs (LOTUS 1-2-3 Financial Analysis)

e. 123.EXE  
(Associated files for LOTUS version 1A not shown but are also required.)  
f. SKELETON.WKS  
g. MAINTORD.WKS

GROUP 3 FILE-IDs (dBASE III Configuration Management System)

h. DBASE.COM  
(Associated files for dBASE III version 1.1 not shown but are also required.)  
i. CONFIG.DBF  
j. CONFIG.NDX  
k. CONFMOD.PRG  
l. CONFREV.PRG  
m. CONFUPD.PRG  
n. DATERPTS.PRG  
o. DELAY.PRG  
p. DESCRIP.DBF  
q. DESCRIP.DBT
Several of the dBASE III command language modules require considerable time to execute. An IBM-PC/XT operating with a clock speed of 6 MHz or greater or IBM-PC/AT provides better performance.
Three additional TURBO Pascal source code files are provided since the Configurer system was developed in Borland International's TURBO Pascal and Software Bottling Company's SCREEN SCULPTOR:

GROUP 1 FILE-IDs
a. SPLICE.PAS  b. SPLICE1.PAS  c. SPLICE2.PAS

GROUP 1 files must reside on a subdirectory named \TURBO. GROUP 2 files must reside on a subdirectory named \LOTUS. Group 3 files must reside on a subdirectory named \DBASEIII. The file USERS.MAN must be present on a subdirectory named \WORDSTAR if the User's Manual is viewed on-line (Function Selection Menu option 4). A version of WORDSTAR must also exist on the subdirectory.

Software Bottling Company product FLASH CODE must be purchased to run the dBASE III Configuration Management System. All command language modules in the dBASE III Configuration Management System use a memory resident program FLASHUP.COM. FLASHUP gives dBASE III the extra capabilities of instantly flashing up screens and instantly popping up windows. Load this command module into the computer memory before running dBASE. The SPLICE.BAT

1 SCREEN SCULPTOR is a software product available from The Software Bottling Company of New York, 6600 Long Island Expressway, Maspeth, NY 11378 (718) 458-3700. SCREEN SCULPTOR is a programming productivity tool that enables programmers to design and create input screens in minutes in either BASIC, IBM Pascal or TURBO Pascal.

2 FLASH CODE is a software product available from The Software Bottling Company of New York, 6600 Long Island Expressway, Maspeth, NY 11378 (718) 458-3700. FLASH CODE is a programming productivity tool that provides dBASE II or dBASE III programmers the capability to use either screens or pop-up windows/help menus that instantaneously flash up on the screen.

3 FLASHUP is a memory resident program supplied with FLASH CODE that enables dBASE II or dBASE III programmers to use screens and pop-up windows/help screens which instantly flash up on the screen rather than the dBASE painting method.
command batch file automatically accomplishes this process. FLASHUP is licensed to individuals for use along with either dBASE II or dBASE III programs and may be moved from one computer to another. Any number of people may use FLASHUP, providing there is no possibility of using it concurrently in two or more locations.

Both Software Bottling Company products, SCREEN SCULPTOR and FLASH CODE must be purchased to perform system maintenance on system screens and windows.

2.2 System Preparations.

Fill out a copy of Attachment 1 before executing the SPLICE Pascal Configurer and Configuration Management System modules. Having this information before beginning a session will greatly facilitate system use.

Turn on the IBM-PC AT target system and the 132 column printer's power. Ensure that the minimum required software listed above is loaded on the active hard disk subdirectories specified. Make subdirectory \DBASEIII the default directory.

2.3 System Execution.

Execute the SPLICE Pascal Configurer and Configuration Management System by entering the command SPLICE at the system prompt (ex: C>SPLICE).

Several copyright notices will appear on the screen after a few seconds delay for system startup. The processes described below are then available: (See Attachment 2 for screen formats).

Screen 1: The Function Selection Menu is the opening screen for the integrated system. Six options exist from which to choose. Option 1 permits the configuration of a SPLICE site. Option 2 uses LOTUS 1-2-3 to perform financial or "what-if" analysis. Option 3 opens the dBASE III SPLICE Configuration Management System. Option 4 reviews the User's Manual on-line. Option 5 returns the system to the dBASE III system prompt. Option 6 returns the system to the DOS prompt. The following discussion is limited to options 1 through 4. Only entries in the range 1 - 6 are valid. The default value is 1.
2.3.1 FUNCTION 1: Execute the Pascal Configurer

Select option 1 (from the Function Selection Menu - Screen 1) to configure a SPLICE site. If the Function Selection Menu is not displayed, select the "Return to" option of the current menu until the Function Selection Menu appears. If a process is active, select the option that terminates the process. Once a menu appears, select the "Return to" option of the current menu until the Function Selection Menu appears. Select option 1 when the Function Selection Menu appears. The first screen of the SPLICE Pascal Configurer (Screen 2) appears.

Screen 2: The opening screen of the Pascal configurer module requires no input.

Screen 3: A list of sites which may be configured appears. Insert an integer value between 01 and 58 to select a currently designated site. Site numbers 59 through 62 are reserved for future designation. Site Number 23 (NAS Oceana) is deactivated and no longer is a designated SPLICE site.

Screen 4: Enter the discount and escalation rates, output file name, number of months of maintenance, and effective delivery order date. Data input ranges apply as described below:

a. FDC SNA Interface Discount Rate: 0.00 - 9.99
b. Non-LCN Purchase Discount Rate: 0.00 - 9.99
c. LCN Purchase Discount Rate: 0.00 - 9.99
d. SPLICENet Software Maintenance Discount Rate: 0.00 - 9.99
e. SPLICENet Software Purchase Discount Rate: 0.00 - 9.99
f. Emergency Maintenance Escalation Rate: 0.0 - 9.9

g. LCN Hardware Maintenance Escalation Rate: 0.000 - 9.999
h. LCN Software Maintenance Escalation Rate: 0.000 - 9.999
i. Installation Escalation Rate: 0.000 - 9.999
j. Training Escalation Rate: 0.00 - 9.99
k. Documentation Escalation Rate: 0.00 - (-9.99)
l. Maintenance Escalation Rate: 0.000 - 9.999
m. Output file name: any 8 alphanumeric characters
n. Hardware Maintenance Months: 0 - 12
o. Effective Date: 01/01/84 - 12/31/99

On entry of the effective date, confirm the input values by entering a "Y" to the prompt "Do you accept the input values thus far? Yes or No". The Default value is "N".

Screen 5: Enter the hardware quantities suggested by the Navy Fleet Material Support Office Sizing Study, as transcribed to Attachment 1. The following data input ranges apply:

a. Processors: 0 - 256
b. Centronics Printers: 0 - 12
c. TANDEM CRTs: 0 - 999
d. 128 MB Disks: 0 - 128, in EVEN quantities
e. 240 MB Disks: 0 - 128, in EVEN quantities
f. 540 MB Disks: 0 - 128, in EVEN quantities
g. Non-6100 ASYNC Controllers: 0 - 64. There should be at least two in the initial order for each OSP; subsequent quantities are at the user's discretion.
h. Non-6100 ASYNC Extension Boards: 0 - 2
i. Bit SYNC Lines: 0 - 128
j. Byte SYNC Lines: 0 - 128
k. Tri-Density Tape Drives: 0 - 128
APPENDIX A: USER'S MANUAL

1. Reader/Punches: 0 - 12

m. Card Readers: 0 - 12

n. 1000 LPM Printers: 0 - 16

o. 600 LPM Printers: 0 - 16

p. LCN Coaxial Cables (Trunks): 0 - 2. Input is only allowed for sites designated in file CONFIG.SIT as Stock Points (S).

q. 6100 Line Interface Units (LIUs): 0 - 256

r. LCN Interface Adapters (multiple entries): 0 - 256. Input is only allowed for sites designated in file CONFIG.SIT as Stock Points (S).

s. Cabinets: 0 - 16 for computed; 0 - 8 for extra. The system computes the required numbers for the 4 types of cabinets and presents this in the COMP field. Additional quantities may be entered in the XTRA field within the allowed ranges specified above as desired.

t. Max Distance Between Computers: A - F. Input is only allowed for sites designated in file CONFIG.SIT as Stock Points (S).

On completion of the Max Distance input value, confirm the input values by entering a "Y" to the prompt "Do you accept the input values thus far? Yes or No". The default value is "N".

Screen 6: Select various software packages and the number of both NETEX and SPLICENet software maintenance months desired. The system only accepts "Y" or "N" entries for software packages. The system only accepts integers in the range 0 - 12 for software maintenance months entries. Network Maintenance Facility (NMF) software is divided into either a group package or individual packages. If the user selects the group package, none of the individual packages can be selected. The cursor moves directly to the NETEX Maintenance Months field. If the NMF group package field response is "N", the user may select each individual package if desired. On completion of the entry for the number of months of SPLICENet software maintenance desired, confirm the input values by entering a "Y" to the prompt "Do you
accept the input values thus far? Yes or No  

The default value is "N".

Screen 7: Enter the quantities for system documentation, training group and courses, and months of Emergency Per-Call Maintenance. Indicate whether to include Site Preparation charges.

The allowable range for documentation and training courses is 0 - 20. The allowable range for Training Groups is 1 - 5. The allowable range for months of Emergency Maintenance is 0 - 12. The allowable inputs to Site Prep charges are "Y" or "N". On completion of the Site Prep charges, confirm the input values by entering a "Y" to the prompt "Do you accept the input values thus far? Yes or No  

The default value is "N".

Screen 8: The configurer software module sign-off screen requires no input. The system displays the output file name used for this configuration run in the sign-off message.

The system returns to the Function Selection Menu (Screen 1) to await the next selection.

2.3.2 FUNCTION 2: Perform LOTUS 1-2-3 Financial or "What-If" Analysis

Discussion of the following actions is predicated on the user having a well developed understanding of the LOTUS 1-2-3 system. Terminate the system and review any of several available books detailing the system's capabilities and operations before continuing if you are not familiar with that software product.

Select option 2 to begin LOTUS 1-2-3 financial or "what-if" analysis processing. Insert a LOTUS system disk in drive A (or have a product such as ZERODISK4 installed) to start the LOTUS system. If the Function Selection Menu is not displayed, select the "Return to " option of the current menu until the Function Selection Menu appears. If

4 ZERODISK is a software product available from Quaid Software Limited, 45 Charles Street East, Third Floor, Toronto, Ontario M4Y 1S2 (416) 961-8243. It is a product that enables users to run software applications without the need to place master disks in the "A" drive required by some programs such as dBASE III, LOTUS 1-2-3, etc.
a process is active, select the option that terminates the process. Once a menu appears, select the "Return to" option of the current menu until the Function Selection Menu appears. Insert a LOTUS system disk in drive A and then select option 2 when the Function Selection Menu appears.

Following a message concerning changing the LOTUS active file directory, the first screen of the LOTUS 1-2-3 system (Screen 9 - See Attachment 2 for screen formats) appears. The system experiences a few seconds delay for system startup.

NOTE: A backslash (\) followed by a single letter indicates a LOTUS macro. Execute a macro by simultaneously depressing the ALT and letter keys. A slash (/) followed by a letter indicates a LOTUS command. [CR] denotes the striking of the RETURN or ENTER key.

Screen 9: The opening menu of the LOTUS 1-2-3 system requires no input. Processing continues with the depression of any key.

Screen 10: The empty LOTUS 1-2-3 spreadsheet screen appears. Change the default subdirectory in LOTUS if it is not subdirectory C:\DBASEIII. Enter LOTUS command /WGDDC:\DBASEIII[CR]Q to change the default subdirectory. Enter LOTUS command /PR to retrieve a file. Screen 11 appears. Use the arrow keys to point to SKELETON or MAINTORD or type either SKELETON or MAINTORD. SKELETON.WKS is the formatting file for outputs from the Pascal Configurer module. This file includes the macros developed for recalculation analysis beginning in cell A200. MAINTORD is the formatting file for outputs from the Maintenance Delivery Order Generation module executed from within the dBASE Configuration Management System. This file includes macros similar to those beginning in cell A200 of file SKELETON.WKS. If the user selects the SKELETON worksheet, Screen 12 - the formatted spreadsheet, appears.

Screen 13: Enter the LOTUS command /FIN{file namel or the macro \F{file name} to begin the importation process. Enter an output file name generated by the Pascal Configurer module. It may either be typed in without the ".PRN" extension or selected by pointing to the file name with the arrow keys.

No further screens for the LOTUS processes are shown here. All screens appear the same, showing different views of the memory resident spreadsheet.
The following LOTUS macros in file SKELETON.WKS have been provided for easier processing:

a. \C - Changes column numeric entries to currency. Execute the macro anywhere in the worksheet.

b. \D - Deletes indicated rows. Place the cursor at the first row to delete before entering \D. Point to the last row to delete using the arrow keys.

c. \E - Deletes all "PRN" files. Execute the macro anywhere in the worksheet.

d. \F - Imports a "PRN" file at the cursor position. Execute the macro anywhere in the worksheet.

e. \I - Recalculates the Total Component Installation Price for a row. Place the cursor in the top row cell of the newly created temporary column (e.g., hardware, software, etc.). Copy subsequent entries using /C versus using \I.

f. \M - Recalculates the Total Component Purchase Price for a row. Place the cursor in the top row cell of the newly created temporary column (e.g., hardware, software, etc.). Copy subsequent entries using /C versus using \M.

g. \N - Recalculates the Total Hardware Component Maintenance Price for a row. Place the cursor in the top row cell of the newly created temporary column (e.g., hardware, software, etc.). Copy subsequent entries using /C versus using \N.

h. \O - Recalculates the Total Software Component Maintenance Price for a row. Place the cursor in the top row cell in the newly created temporary column (e.g., hardware, software, etc.). Copy subsequent entries using /C versus using \O.

i. \P - Prepares the worksheet for output to the dBASE process. Execute the macro anywhere in the worksheet.
APPENDIX A: USER's MANUAL

j. \R - Names a macro. Execute the macro in the cell of the new macro identifier.

k. \S - Sum indicated columns. Execute the macro from the cell where the total figure is desired. Use arrow keys, followed by the RETURN or ENTER key, to indicate the beginning and end of the summary area.

l. \T - Recalculates the Component Downtime hourly rate. Place the cursor in the top row cell in the newly created temporary column (e.g., hardware, software, etc.). Copy subsequent entries using /C versus using \T.

m. \U - Recalculates the Component System Downtime hourly rate. Place the cursor in the top row cell in the newly created temporary column (e.g., hardware, software, etc.). Copy subsequent entries using /C versus using \U.

Perform formula recalculation one column at a time starting from the left. Insert a new column to the left of the Total Purchase Price, Total Component Maintenance, Total Installation Price, and two Downtime Credit columns. Execute the \M, \N, \O, \I, \T, and \U macros described above in the first entry of each applicable column. Copy the resulting formula down the remainder of the column. Sum the column using the \S macro. When results are satisfactory, move (/M) the new column over the old column and delete (/WDC) the now blank column. Re-sum (no macro provided) the summary financial data at the bottom of the spreadsheet.

Perform "what-if" analysis, using the macros provided, following formula recalculation. Exercise extreme care when changing component quantities! If component quantity changes are made, print and review the proposed changes. After reviewing the changes, reverify the accuracy of the changes using the Configurer system. Use the Configurer to ensure that all configuration rules are properly followed.

Save an archival copy of the worksheet with the /FS{file name} command. Print a delivery order with the /PP command. Strip off the worksheet headers, non-hardware and software line items, section cost totals, summary notes and cost information with the \D macro. Print the remaining contents of the spreadsheet (less macros) with the /PF{file name} command or \P macro.
APPENDIX A: USER'S MANUAL

Terminate 1-2-3 by entering the LOTUS command /QY[CR]. The system returns to the Function Selection Menu (Screen 1) to await the next selection.

The following processing is accomplished if the file MAINTORD is selected. The system automatically loads the NEWDO.PRN file created from the dBASE III Maintenance Delivery Order Generation module. The cursor moves to the appropriate field to accept entry of the effective date. Use the macros stored at location A200 to verify and complete the maintenance delivery order following entry of the effective date.

The following LOTUS macros on MAINTORD.WKS have been provided for easier processing:

a. \C - Copies header information.

b. \D - Deletes the first column.

c. \0 - Automatically imports the maintenance delivery order called NEWDO.PRN.

d. \I - Adds rows for software headers.

e. \N - Recalculates the Total Hardware Component Maintenance Price for a row. Place the cursor in the top row cell in the newly created temporary column (i.e., hardware and software). Copy subsequent entries using /C versus using \N.

f. \O - Recalculates the Total Software Component Maintenance Price for a row. Place the cursor in the top row cell in the newly created temporary column (i.e., hardware and software, etc.). Copy subsequent entries using /C versus using \O.

g. \R - Names a macro. Execute the macro in the cell of the new macro identifier.

h. \S - Sum indicated columns. Execute the macro from the cell where the total figure is desired. Use arrow keys, followed by the RETURN or ENTER key, to indicate the beginning and end of the summary area.
APPENDIX A: USER's MANUAL

Locate the first software item in the body of the spreadsheet (feature number between 510101 and 660101, 860101 or 860201). Move the cursor to the corresponding location in column "A". Execute the \I macro to insert blank rows at the location. When complete, move the cursor down 4 rows and execute the /C LOTUS command to copy headers to the beginning of the next section.

Verify the calculated Component Factored Maintenance cell for each data entry. Move the cursor to the first entry in the hardware section of the Component Factored Maint column and execute the command /WIC[CR]. This will add an additional column to the spreadsheet. Execute macro \N to automatically recalculate the maintenance amount at the first hardware component cell. Execute the LOTUS command /C[CR]{DOWN}.{DOWN to the end of the hardware column}[CR]. This copies the formula in the first cell to all following cells. Use the \S macro to sum the column and copy the same formula to the next cell to the right with the /C LOTUS command.

Comparison of these two sums may show minor rounding differences. Use the /M command to move the desired cells one column to the right to retain the LOTUS figure. Use the same procedure in the software section, substituting the \O macro for the \N macro. Delete the unnecessary column with the /WDC command following the movement of the data to the newly created column.

When validation of all entries is complete, manually enter financial appropriation data and end of delivery order comments. Manually recalculate a new System Downtime Credit Factor value using data supplied on the spreadsheet plus the installation cost. Save or print the new delivery order, as desired.

Terminate LOTUS 1-2-3 by executing the LOTUS command /QY[CR]. The system returns to the Function Selection Menu (Screen 1) to await the next selection.

2.3.3 FUNCTION 3: Execute the dBASE III Configuration Management System

Select menu option 3 (from the Function Selection Menu - Screen 1) to invoke the dBASE III Configuration Management System. If the Function Selection Menu is not displayed, select the "Return to" option of the current menu until the Function Selection Menu appears. If a
process is active, select the option that terminates the process. Once a menu appears, select the "Return to " option of the current menu until the Function Selection Menu appears. Next select menu option 3. The first screen of the dBASE III Configuration Management System (the Process Selection Menu - Screen 14) appears.

Screen 14: Ten menu options (0 - 9) exist. Processing continues based on the selection entered. Option 0 returns the system to the Function Selection Menu (Screen 1). The remaining options are discussed in order.

2.3.3.1 Load a new Delivery Order into the Configuration Management System.

Select menu option 1 (from the Function Selection Menu - Screen 1) to load a new delivery order generated by the SPLICE Configurer. The Delivery Order Load Menu (Screen 15) appears. Next select menu option 1 to commence the loading process for the new delivery order.

Screen 15: Select one of two options: 1 - load a new delivery order or 2 - return to the Process Selection Menu (Screen 14).

Screen 16: Enter the LOTUS output file name. A file name may be from one to eight alphanumeric characters long. The default file name supplied by the system is "SPLICE.PRN". The system automatically provides the extension. If the file name entered cannot be found on the default subdirectory, re-enter a valid name. An error message appears on the status line if the file name entered cannot be found. After three invalid entries, either exit the program or supply another file name. When a valid file name is supplied, enter the effective date for the delivery order. Valid dates range from 840101 to 991231 (the system currently will not accept leap year dates - 29 February). The actual site number from the input delivery order appears following the entry of a valid date. The user may change the site number to any site number within the range 01 - 58 or accept the site number displayed. Following the entry of a valid site number, accept all data entries before the load process begins. If the response is "N", all data entries are erased and the input process is repeated. If the response is "Y", indicate input file disposition: 1 - retain or 2 - erase.
APPENDIX A: USER's MANUAL

The update process commences following this response. The load process may take up to 10 minutes. This is primarily due to the building of serial number records for each individual component on the delivery order. **BE PATIENT.** During the load process, status messages appear to keep the user apprised of the transactions as they occur. When the load process finishes, indicate whether to load another delivery order. If the response is "Y", the process starts with a new Screen 16. If the response is "N", the system returns to the Delivery Order Load Menu (Screen 15). Select menu option 2 to return to the Process Selection Menu (Screen 14) to await the next selection.

2.3.3.2 **Perform maintenance on the Equipment File.**

Select menu option 2 (from the Process Selection Menu - Screen 14) to either modify or review records in the Equipment File. Following the selection of option 2, the Equipment Maintenance Selection Menu (Screen 17) appears.

**Screen 17:** The Equipment Maintenance Selection Menu enables the user to review or modify selected entries in the Equipment File. Select one of three options: 1 - update price information; 2 - review equipment file entries; or 3 - return to the Process Selection Menu (Screen 14).

2.3.3.2.1 **Modify an Equipment File Record.**

Select menu option 1 (from the Equipment Maintenance Selection Menu - Screen 17) to modify an Equipment File record. Following the selection of option 1, the Equipment Update Format screen (Screen 18) appears.

**Screen 18:** Enter the site number to update, an integer from 01 to 58.

Select one of three options: 1 - update a specific site's records; or 2 - start at the beginning of the Equipment File; or 3 - start at the end of the Equipment File viewing records until the desired record appears. Enter "00" to start viewing records at the beginning of the file. Enter "99" to start viewing records at the end of the file. Enter the site number to modify records for a specific site.
Following entry of the specified site number, two options exist: 1 - select a specific six digit feature number or 2 - start with the first feature number by entering "00   " (two zeroes followed by four spaces). Status messages appear at the bottom of the screen when reaching the first and last records. This action only occurs if a specific site is selected (a site selection other than "00" or "99").

The only authorized changes in this screen are the three price fields. An introductory window, explaining how to terminate the modification of a record field, appears following the entry of a feature number. Terminate the introductory information window by striking the RETURN or ENTER key. Changes to fields are possible one field at a time. If changes are made to any field, either accept or reject the changes. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the update process. On exiting, the system returns to the Equipment Maintenance Selection Menu (Screen 17).

2.3.3.2.2 Review an Equipment File Record.

Select menu option 2 (from the Equipment Maintenance Selection Menu - Screen 17) to review an Equipment File record. Following the entry of option 2, the Equipment Review Format screen (Screen 19) appears.

Screen 19: Enter the site number to review, an integer from 01 to 58.

Select one of three options: 1 - review a specific site's records; or 2 - start at the beginning of the Equipment File; or 3 - start at the end of the Equipment File viewing records until the desired record appears. Enter "00" to start viewing records at the beginning of the file. Enter "99" to start viewing records at the end of the file. Enter the site number to review records for a specific site.

Following the entry of specified site number, two options exist: 1 - select a specific six digit feature number or 2 - start with the first feature number by entering "00   " (two zeroes followed by four spaces). Status messages appear at the bottom of the screen when reaching the first and last records. This action only occurs if a specific site is selected (a site selection other than "00" or "99").
No changes are allowed in this screen. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the review process. On exiting, the system returns to the Equipment Maintenance Selection Menu (Screen 17).

2.3.3.3 Perform Maintenance on the Equipment Description File.

Select menu option 3 (from the Process Selection Menu - Screen 14) to either modify or review records in the Equipment Description File. Following the selection of option 3, the Equipment Description Maintenance Menu (Screen 20) appears.

Screen 20: The Equipment Description Maintenance Menu enables the user to review or modify selected entries in the Equipment Description File. Select one of three options: 1 - modify Equipment Description File entries; 2 - review Equipment Description File entries; or 3 - return to the Process Selection Menu (Screen 14).

2.3.3.3.1 Modify an Equipment Description File Record.

Select menu option 1 (from the Equipment Maintenance Selection Menu - Screen 17) to modify an Equipment Description File record. After the selection of option 1, the Description Update Format screen (Screen 21) appears.

Screen 21: Enter: 1 - "00" (two zeroes followed by four spaces) to start the update process at the top of the file; 2 - "99" (two nines followed by four spaces) to start at the update process the end of the file; or 3 - a six digit feature number. Valid feature numbers range from 000101 to 994001.

An introductory window, explaining how to terminate the modification of a record field, appears following the entry of a feature number. Terminate the introductory information window by striking the RETURN or ENTER key. Changes to fields are possible one field at a time.

All data entries in this screen may be modified. Once the Base Maintenance Price field is either modified or passed, the user may update the memo field. If the response is "Y", a window of instructions (Screen 22) appears. The
instructions describe how to make changes to the memo field. If the response is "N", processing continues.

Accept or reject changes made to any field. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the update process. On exiting, the system returns to the Equipment Maintenance Selection Menu (Screen 17).

2.3.3.3.2 **Review an Equipment Description File Record.**

Select menu option 2 (from the Equipment Maintenance Selection Menu - Screen 17) to review an Equipment Description File record. After the selection of option 2, the Description Review Format screen (Screen 23) appears.

Screen 23: Enter either: 1 - "00" (two zeroes followed by four spaces) to start the update process at the top of the file; 2 - "99" (two nines followed by four spaces) to start at the update process the end of the file; or 3 - a six digit feature number. Valid feature numbers range from 000101 to 994001.

No changes are allowed in this screen. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the review process. On exiting, the system returns to the Equipment Maintenance Selection Menu (Screen 17).

2.3.3.4 **Perform Maintenance on the Site Name File.**

Select menu option 4 (from the Process Selection Menu - Screen 14) to either modify or review records in the Site Name File. Following the selection of option 4, the Site Name Maintenance Menu (Screen 24) appears.

Screen 24: The Site Name Maintenance Menu enables the user to review or modify selected entries in the Site Name File. Select one of three options: 1 - modify Site Name File entries; 2 - review Site Name File entries; or 3 - return to the Process Selection Menu (Screen 14).
2.3.3.4.1 Modify a Site Name File Record.

Select menu option 1 (from the Site Name Maintenance Menu - Screen 24) to modify a Site Name File record. After the selection of option 1, the Site Address Data Update Format screen (Screen 25) appears.

Screen 25: Enter the site number to update, an integer from 01 to 58.

Select one of three options: 1 - update a specific site's records; or 2 - start at the beginning of the Site Name File; or 3 - start at the end of the Site Name File viewing records until the desired record appears. Enter "00" to start viewing records at the beginning of the file. Enter "99" to start viewing records at the end of the file. Enter the site number to modify records for a specific site.

All data entries, except site number and type activity, may be changed. An introductory window, explaining how to terminate the modification of a record field, appears following the entry of a feature number. Terminate the introductory information window by striking the RETURN or ENTER key. Changes to fields are possible one field at a time. Accept or reject changes made to any field. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the update process. On exiting, the system returns to the Site Name Maintenance Menu (Screen 24).

2.3.3.4.2 Review a Site Name File Record.

Select menu option 2 (from the Site Name Maintenance Menu - Screen 24) to review a Site Name File record. Following the selection of option 2, the Site Address Data Review Format screen (Screen 26) appears.

Screen 26: Enter the site number to review, an integer from 01 to 58.

Select one of three options: 1 - review a specific site's records; or 2 - start at the beginning of the Site Name File; or 3 - start at the end of the Site Name File viewing records until the desired record appears. Enter "00" to start viewing records at the beginning of the file.
Enter "99" to start viewing records at the end of the file. Enter the site number to review records for a specific site.

No data entries may be changed in this screen. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the update process. On exiting, the system returns to the Site Name Maintenance Menu (Screen 24).

### 2.3.3.5 Perform Maintenance on the Manual File.

Select menu option 5 (from the Process Selection Menu - Screen 14) to either modify or review records in the Manual File. Following the selection of option 5, the Manual Maintenance Menu (Screen 27) appears.

**Screen 27:** The Manual Maintenance Menu enables the user to either access, modify, add or delete selected entries in the Manual File. Select one of five options: 1 - add a new Manual Description entry; 2 - update Manual Description entries; 3 - delete a Manual Description entry; 4 - review Manual Description entries; or 5 - return to the Process Selection Menu (Screen 14).

#### 2.3.3.5.1 Add a new Manual Description entry.

Manual description entries may only be added for the site selected. The site number and feature number must be known to successfully execute this process. This restriction applies even if a manual description already exists for a site and feature number. Be sure you want to add a new manual and not just update an existing one! Delete an old manual if it is no longer applicable.

**Screen 28:** Enter a valid site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site number selected.

Enter the feature number for the manual description to add. Valid feature numbers range from 000101 to 994001. The system validates the feature number to ensure that the feature number exists on the file. Once a valid feature number is entered, the CLIN and description data appear. The cursor moves to the Manual Description field where the new manual description is entered. Indicate whether the new description is acceptable. If the response is "N", either choose to continue or exit. If the response is "Y", the new
description entered is accepted. Choose either to continue or exit. On exiting, the system returns to the Manual Maintenance Menu (Screen 27).

2.3.3.5.2 Update a Manual Description entry.

Select menu option 2 (from the Manual Maintenance Menu - Screen 27) to modify a Manual File record. After the selection of option 2, the Manual Update Format screen (Screen 29) appears.

Screen 29: Enter a valid site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Select one of three options: 1 - update a specific site's records; or 2 - start at the beginning of the Manual File; or 3 - start at the end of the Manual File viewing records until the desired record appears. Enter "00" to start viewing records at the beginning of the file. Enter "99" to start viewing records at the end of the file. Enter the site number to modify records for a specific site.

Following entry of the specified site number, two options exist: 1 - select a specific six digit feature number or 2 - start with the first feature number by entering a feature number of "00 " (two zeroes followed by four spaces). Status messages appear at the bottom of the screen when reaching the first and last records. This action only occurs if a specific site is selected (a site selection other than "00" or "99").

The only field allowed to be modified during this process is the Manual Description field. An introductory window, explaining how to terminate the modification of a record field, appears following the entry of a feature number. Terminate the introductory information window by striking the RETURN or ENTER key.

Changes to fields are possible one field at a time. Accept or reject changes made to any field. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the update process. On exiting, the system returns to the Manual Maintenance Menu (Screen 27).
2.3.3.5.3 Delete a Manual Description entry.

Select menu option 3 (from the Manual Maintenance Menu - Screen 27) to delete a Manual Description entry. After the selection of option 3, the Manual Deletion Format screen (Screen 30) appears.

Screen 30: Enter a valid site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Enter the feature number for the description to delete. Valid feature numbers range from 000101 to 994001. When the description appears, verify the deletion decision. If the response is "N", the Manual Description is left intact. If the response is "Y", the Manual Description is deleted. Choose either to continue or exit. On exiting, the system returns to the Manual Maintenance Menu (Screen 27).

2.3.3.5.4 Review a Manual Description entry.

Select menu option 4 (from the Manual Maintenance Menu - Screen 27) to review a Manual Description entry. After the selection of option 4, the Manual Review Format screen (Screen 31) appears.

Screen 31: Enter a site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Select one of three options: 1 - review a specific site's records; or 2 - start at the beginning of the Manual File; or 3 - start at the end of the Manual File viewing records until the desired record appears. Enter "00" to start viewing records at the beginning of the file. Enter "99" to start viewing records at the end of the file. Enter the site number to review records for a specific site.

No data entries may be changed in this screen. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the update process. On exiting, the system returns to the Site Name Maintenance Menu (Screen 24).
2.3.3.6 Perform Maintenance on the Serial Number File.

Select menu option 6 (from the Process Selection Menu - Screen 14) to either modify or review records in the Serial Number File. Following the selection of option 6, the Serial Number Maintenance Menu (Screen 32) appears.

Three data elements must be known to perform an update on a Serial Number File record. The three data elements are: 1 - site number, 2 - effective delivery order date and 3 - feature number of the serial number to be modified. If all three or any of these data elements are not known, run a date level report to obtain the three elements (refer to the section Generate REPORTS for the Project, a Site or Equipment for specific procedures).

2.3.3.6.1 Modify a Serial Number File record.

Select menu option 1 (from the Serial Number Maintenance Selection Menu - Screen 32) to modify a Serial Number File record. After the selection of option 1, the Serial Number Update Format screen (Screen 33) appears.

**Screen 33:** Enter a valid site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Following the site number entry, enter an effective delivery order date. Three attempts are allowed to specify an effective delivery order date. Screen 34 appears if on the third attempt a valid effective delivery order date is not entered. Select one of two choices: 1 - continue with the update process or 2 - exit the update process and obtain the three elements (refer to the section Generate REPORTS for the Project, a Site or Equipment for specific procedures).

Once a delivery order date is entered, enter a valid feature number. Valid feature numbers range from 000101 to 994001. Screen 34 appears if all three data elements do not match any record data fields for the site selected. The same two choices described in the paragraph above may be chosen. When a valid feature number is entered and all three data elements match, a short introductory window explaining how to terminate the modification of a record
Following termination of the introductory information screen, the Serial Number File record selected appears. The only field that may be modified is the serial number field. Accept or reject changes made to the serial number field. If the response is "y", the change is made to the database. If the response is "N", the change is not accepted. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the update process. On exiting, the system returns to the Serial Number Maintenance Menu (Screen 32).

2.3.3.6.2 Review a Serial Number File record.

Select menu option 2 (from the Serial Number Maintenance Selection Menu - Screen 32) to review a Serial Number File record. After the selection of option 2, the Serial Number Update Format screen (Screen 35) appears.

Screen 35: Enter a valid site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Select one of three options: 1 - review a specific site's records; or 2 - start at the beginning of the Serial Number File; or 3 - start at the end of the Serial Number File viewing records until the desired record appears. Enter "00" to start viewing records at the beginning of the file. Enter "99" to start viewing records at the end of the file. Enter the site number to review records for a specific site.

Following entry of the specified site number, two options exist: 1 - select a specific six digit feature number or 2 - start with the first feature number by entering "00  " (two zeroes followed by four spaces). Valid feature numbers range from 000101 to 994001. Status messages appear at the bottom of the screen when reaching the first and last records. This action only occurs if a specific site is selected (a site selection other than "00" or "99").

No data fields are allowed to be modified during the review process. Choose either: 1 - access the next record; 2 - access the previous record; or 3 - exit the review.
process. On exiting, the system returns to the Serial Number Maintenance Menu (Screen 32).

2.3.3.7 Generate REPORTS for the Project, a Specific Site or a Particular Date.

Select menu option 7 (from the Process Selection Menu - Screen 14) to obtain an overall project report, a report for a particular site or a report for a delivery order issued on a particular site. Following the selection of option 7, the Report by Type Menu (Screen 36) appears.

Screen 36: Various levels of reports which may be selected appear. Select one of three options: 1 - obtain a project level report; 2 - obtain a site specific report; 3 - obtain a delivery order specific report; or 4 - return to the Process Selection Menu (Screen 14).

Screen 37: When obtaining any of the various types of reports, two options exist: 1 - obtain a printed report or 2 - view the data on screen. Screen 37 always appears if a printed report is selected. Ensure: 1 - the power to the printer is on; 2 - sufficient paper is loaded in the printer and 3 - the leading edge of the paper is positioned with the printer's typing line alignment mark. After all three conditions are satisfied, commence printing by the striking the RETURN or ENTER key. Once printing commences, the appropriate screen appears and status messages detailing the progress of the report are displayed.

2.3.3.7.1 Obtain an Overall Project Level Report.

Select menu option 7 (from the Process Selection Menu - Screen 14) to obtain an overall project level report for a site. The Report by Type Menu (Screen 36) appears. From the Report by Type Menu, select option 1. After the selection of option 1, the Project Level Reports Menu (Screen 38) appears.

Screen 38: Select one of three options: 1 - obtain a report by equipment type; 2 - obtain a report by serial numbers; or 3 - return to the Report by Type Menu (Screen 36).
2.3.3.7.1.1 **Obtain an Overall Project Report by Equipment Type.**

Select menu option 1 (from the Project Level Reports Menu - Screen 38) to obtain an overall project report broken down by type of equipment. After the selection of option 1, the Equipment Project Level Report screen (Screen 39) appears.

**Screen 39:** Indicate whether a printed report is desired. Responses are either "Y" or "N". If the response is "Y", Screen 37 appears before printing commences (See the discussion of Screen 37 above). If the response is "N", the data and associated headings appear. Screen 40 is a sample report format.

**Screen 40:** All equipment is totaled by feature number and presented. The quantity for each feature number displayed represents the total quantity ordered for all sites in the Equipment database. After each screen, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Project Level Reports Menu (Screen 38).

2.3.3.7.1.2 **Obtain an Overall Project Report by Serial Number.**

Select menu option 2 (from the Project Level Reports Menu - Screen 38) to obtain an overall project report broken down by serial number. After the selection of option 2, the Equipment Serial Number Project Level Report screen (Screen 41) appears.

**Screen 41:** Indicate whether a printed report is desired. Responses are either "Y" or "N". If the response is "Y", Screen 37 appears before printing commences (See the discussion of Screen 37 above). If the response is "N", the data and associated headings appear. Screen 42 is a sample report format.

**Screen 42:** All serial numbers for each component at all sites are presented. This will probably be a LARGE report! Entries include: Site Number, CLIN, Feature Number, Description, Effective Delivery Order Date, total component quantity on the delivery order, specific component number (e.g. 1 of 9), and the applicable serial number. After each
screen, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Project Level Reports Menu (Screen 38).

### 2.3.3.7.2 Obtain a Report for a Particular Site.

Select menu option 7 (from the Process Selection Menu - Screen 14) to obtain a report for a particular site The Report by Type Menu (Screen 36) appears. Select menu option 2 from the Report by Type Menu. After the selection of option 2, the Site Level Reports Menu (Screen 43) appears.

**Screen 43:** Select one of four options: 1 - obtain a report by equipment type; 2 - obtain a report of site manuals; 3 - obtain a report by serial number; or 4 - return to the Site Level Reports Menu (Screen 43).

#### 2.3.3.7.2.1 Obtain a Site Specific Report by Equipment Type.

Select menu option 1 (from the Site Level Reports Menu - Screen 43) to obtain a site specific report broken down by equipment type. After the selection of option 1, the Equipment Site Level Report screen (Screen 44) appears.

**Screen 44:** Enter the site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

**Screen 45:** Indicate whether a printed report is desired. Responses are either "Y" or "N". If the response is "Y", Screen 37 appears before printing commences (See the discussion of Screen 37 above). If the response is "N", the data and associated headings appear. Screen 46 is a sample report format.

**Screen 46:** All records for a specific site are selected from the Equipment database and their quantities are totaled. The Site Number, CLIN, Feature Number, Equipment Description, and total site quantity are presented. After each screen, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Site Level Reports Menu (Screen 42).
2.3.3.7.2.2 Obtain a Site Specific Report of Manuals.

Select menu option 2 (from the Site Level Reports Menu - Screen 43) to obtain a site specific manual report. After the selection of option 2, the Site Level Manual Report screen (Screen 47) appears.

Screen 47: Enter the site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Screen 48: Indicate whether a printed report is desired. Responses are either "Y" or "N". If the response is "Y", Screen 37 appears before printing commences (See the discussion of Screen 37 above). If the response is "N", the data and associated headings appear. Screen 49 is a sample report format.

Screen 49: The Manual File is accessed and each feature number within the selected site appears. Report items include Site Number, CLIN, Feature Number, Description, and Manual Description. After each screen, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Site Level Reports Menu (Screen 42).

2.3.3.7.2.3 Obtain a Site Specific Report by Serial Number.

Select menu option 3 (from the Site Level Reports Menu - Screen 43) to obtain a site specific report of serial numbers. After the selection of option 3, the Site Serial Number Report screen (Screen 50) appears.

Screen 50: Enter the site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Screen 51: Indicate whether a printed report is desired. Responses are either "Y" or "N". If the response is "Y", Screen 37 appears before printing commences (See the discussion of Screen 37 above). If the response is "N", the data and associated headings appear. Screen 52 is a sample report format.
Screen 52: All serial numbers for each component at a site appear. Entries include: Site Number, CLIN, Feature Number, Description, Effective Delivery Order Date, total component quantity on the delivery order, specific component number (e.g. 1 of 9), and the applicable serial number. After each screen, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Site Level Reports Menu (Screen 42).

2.3.3.7.3 Obtain a Report for a Delivery Order Issued on a Particular Date.

Select menu option 7 (from the Process Selection Menu - Screen 14) to obtain a report for a delivery order issued on a particular date. The Report by Type Menu (Screen 36) appears. From the Report by Type Menu, select option 3. After the selection of option 3, the Delivery Order Date Level Reports Menu (Screen 53) appears.

Screen 53: Select one of four options: 1 - obtain an equipment report with unit costs; 2 - obtain an equipment report without costs; 3 - obtain a report by serial number; or 4 - return to the Delivery Order Date Level Reports Menu (Screen 53).

2.3.3.7.3.1 Obtain a Report by Equipment Type with Unit Prices.

Select menu option 1 (from the Delivery Order Date Level Reports Menu - Screen 53) to obtain a date level report broken down by equipment type with unit prices. After the selection of option 1, the Delivery Order Level Report screen (Screen 54) appears.

Screen 54: Enter the site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Screen 55: All delivery orders existing in the Equipment database appear. After the last delivery order effective date appears, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Delivery Order Date Level Reports Menu (Screen 53).

Screen 56: Indicate whether a printed report is desired. Responses are either "Y" or "N". If the response
is "Y", Screen 37 appears before printing commences (See the discussion of Screen 37 above). If the response is "N", the data and associated headings appear. Screen 57 is a sample report format.

Screen 57: Items appearing on the report are Delivery Order Date, Site Number, CLIN, Feature Number, Description, Delivery Order Quantity, and Component Unit Purchase Price. After each screen, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Delivery Order Date Level Reports Menu (Screen 53).

2.3.3.7.3.2 Obtain a Report by Equipment Type without Unit Prices.

Select menu option 2 (from the Delivery Order Date Level Reports Menu - Screen 53) to obtain a date level report broken down by equipment type without unit prices. After the selection of option 2, the Delivery Order Level Report screen (Screen 58) appears.

Screen 58: Enter the site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Screen 59: All delivery orders existing in the Equipment database appear. After the last delivery order effective date appears, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Delivery Order Date Level Reports Menu (Screen 53).

Screen 60: Indicate whether a printed report is desired. Responses are either "Y" or "N". If the response is "Y", Screen 37 appears before printing commences (See the discussion of Screen 37 above). If the response is "N", the data and associated headings appear. Screen 61 is a sample report format.

Screen 61: Items appearing on the report are Delivery Order Date, Site Number, CLIN, Feature Number, Description, Delivery Order Quantity, and FDC Model Number. After each screen, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Delivery Order Date Level Reports Menu (Screen 53).
2.3.3.7.3.3 Obtain a Date Level Report by Serial Number.

Select menu option 3 (from the Delivery Order Date Level Reports Menu - (Screen 53) to obtain a date level report broken down by serial number. After the selection of option 3, the Site Serial Number Report screen (Screen 62) appears.

Screen 62: Enter the site number, an integer from 01 to 58. The site number entered is validated to ensure that records exist for the site selected.

Screen 63: All delivery orders existing in the Equipment database appear. After the last delivery order effective date appears, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Delivery Order Date Level Reports Menu (Screen 53).

Screen 64: Indicate whether a printed report is desired. Responses are either "Y" or "N". If the response is "Y", Screen 37 appears before printing commences (See the discussion of Screen 37 above). If the response is "N", the data and associated headings appear. Screen 65 is a sample report format.

Screen 65: Items appearing on the report are Delivery Order Date, Site Number, CLIN, Feature Number, Description, Delivery Order Effective Date, Total Quantity by Component ordered on the delivery order, specific component quantity (e.g. 1 of 9), and Item Serial Number. After each screen, choose either: 1 - continue the report or 2 - exit the report process. On exiting, the system returns to the Delivery Order Date Level Reports Menu (Screen 53).

2.3.3.8 Generate a Maintenance Delivery Order for a SPLICE Site.

Select menu option 8 (from the Process Selection Menu - Screen 14) to generate a maintenance delivery order for a SPLICE site. Following the selection of option 8, the Maintenance Delivery Order Generation Program screen (Screen 66) appears.

Screen 66: Enter the following data: 1 - Site Number; 2 - LCN Hardware Maintenance Escalation Rate; 3 - LCN
Software Escalation Maintenance Rate; 4 - SPLICENet Maintenance Discount Rate; and 5 - Site Maintenance Escalation Rate. After these data elements are entered, choose either: 1 - continue or 2 - exit the process. If the response is "Y", the maintenance delivery order generation process is initiated and takes approximately 10 minutes to complete. The output file generated is always "NEWDO.PRN". On completion of the generation process, the system returns to the Process Selection Menu (Screen 14) to await the next selection.

On returning to the Process Selection Menu, select menu option 0 to return to the Function Selection Menu (Screen 1). From the Function Selection Menu, select menu option 2. After selecting option 2, the system transfers to the LOTUS 1-2-3 environment. Refer to section 2.3.2 on page 19 to obtain the specific details for step-by-step procedures. Since this is a maintenance delivery order rather than an initial delivery order, follow the procedures which address MAINTDO worksheet execution versus SKELETON worksheet execution.

2.3.3.9 Generate Mailing Labels for all SPLICE Sites.

Select menu option 9 (from the Process Selection Menu - Screen 14) to generate mailing labels for all SPLICE sites. Following the selection of option 9, the Mailing Label Generation Program screen (Screen 67) appears.

Screen 67: The mailing label generation program simply produces mailing labels for all the SPLICE sites. Delivery order changes, contract amendments, or other SPLICE related correspondence may be mailed to all SPLICE sites without having to manually create labels. The only input required for the process is the number of copies of mailing labels desired during the run. Valid input values are from 1 to 10 copies of mailing labels. When processing is complete, control returns to the Process Selection Menu (Screen 14) to await the next selection.

This completes the discussion of the process functions of the SPLICE Configurer and dBASE III Configuration Management System. Exit the integrated system by either of two options: 1 - select Function Selection Menu option 5 to return to the dBASE III system prompt or 2 - select Function Selection Menu option 6 to return to the DOS operating system prompt.
DEVELOPMENT OF AN AUTOMATED MICROCOMPUTER
KNOWLEDGE-BASED INTEGRATED CON... (U) NAVAL POSTGRADUATE
SCHOOL MONTEREY CA R L BEARD MAR 86
2.3.4 FUNCTION 4: View the on-line User's Manual

Select Function Selection Menu option 4 to view the on-line User's Manual. The system temporarily transfers control to Wordstar where a copy of the file "USERS.MAN" is viewed. Any changes made to this file during the viewing process are not retained. The file copy is destroyed on termination from Wordstar. Terminate User's Manual viewing by typing either "^KD" or "^KQ" (see note below). Either command returns the system to the Wordstar opening menu. Typing the letter "X" returns the system to the Configuration Management System.

NOTE: The commands "^KD" and "^KQ" are executed by simultaneously holding down the "CTRL" key (represented by the character ^) on the left side of the keyboard and typing the letter "K" followed by either letters "D" or "Q".

3.0 System Output.

The output from the SPLICE Pascal configurer is a formatted disk file. The file is input data for LOTUS 1-2-3, which has 3 outputs: 1 - an archival LOTUS "WKS" disk file; 2 - a dBASE "PRN" input disk file; and 3 - a delivery order.

The dBASE process has numerous outputs. Refer to Section 2 (Screens 36 through 66) for further information.

4.0 Exception Reports.

This integrated system is interactive, therefore, no hard copy exception reports are produced. Error:ously entered data is presented to the user for immediate action or correction.

5.0 Limitations.

The SPLICE System Configurer was designed on an IBM-PC, but is intended to be run on an IBM-PC AT. The designers recommend that the target IBM-PC AT have the maximum user memory allowed (640KB). To run the dBASE Configuration Management System, a hard disk is mandatory. The system requires a 132 column printer to print delivery orders.
generated from both LOTUS 1-2-3 and dBASE processes and mailing labels.

If a system other than an IBM-PC/AT is used, the system will respond slowly. Further performance degradation will occur while importing the *.PRN* file into LOTUS. Performance degradation will also occur during the Serial Number building process in the file load and in the maintenance delivery order generation process.

256KB of memory is required if dBASE III version 1.0 is used. 384KB RAM is required if dBASE version 1.1 is used.

The SPLICE Pascal Configurer system is limited by the number of components it can configure (200) and the number of sites it can configure (58).

The LOTUS 1-2-3 and dBASE III modules exhibit only those limitations which exist for those "off-the-shelf" packages.

6.0 **Command Sequence.**

Issue the command SPLICE (ex: C>SPLICE) from the DOS command prompt to invoke the SPLICE integrated configuration system (Pascal Configurer and dBASE Configuration Management System). This directs DOS to process a command batch file named SPLICE. The command batch file issues all required commands and causes the integrated system to load the memory resident module FLASHUP and commence integrated system execution (See Section 2 for more detailed entries).

**NOTE:** Prior to issuing the command SPLICE, deactivate any resident color enhancement programs (ex: KOLOR.COM). Such programs interfere with the screen colors generated by the system and data entry color attributes.

7.0 **Who to Call.**

If program malfunctions occur or questions related to the system arise, contact LCDR E. J. Case, SC, USN, phone number (408) 384-8204 or LCDR R. L. Beard III, SC, USN, phone number (408) 646-1982.
APPENDIX A: USER's MANUAL

SELECTION CRITERIA FOR A SPLICE CONFIGURATION

SITE NAME: ______________________________

SITE NUMBER: ____________________

DISCOUNT/ESCALATION RATES:

FDC SNA Interface discount rate: __________

NON-LCN PURCHASE discount rate: __________

LCN PURCHASE discount rate: __________

SPLICENet Software Maintenance discount rate: __________

SPLICENet Software Purchase discount rate: __________

EMERGENCY MAINTENANCE escalation rate: __________

LCN HARDWARE MAINTENANCE escalation rate: __________

LCN SOFTWARE MAINTENANCE escalation rate: __________

INSTALLATION escalation rate: __________

TRAINING escalation rate: __________

DOCUMENTATION escalation rate: __________

MAINTENANCE escalation rate from SPLICE contract: __________

Output File Name: __________.PRN

Number of MAINTENANCE MONTHS for this order: __________

Effective Delivery Order Date: __________

(MM / DD / YY)
APPENDIX A: USER's MANUAL

HARDWARE SELECTIONS:

PROCESSORS recommended by FMSO Sizing Study:

CENTRONICS PRINTERS to be ordered:

TANDEM CRTS to be ordered:

128MB DISCs FMSO Sizing Study recommended, EVEN No.:

240MB DISCs FMSO Sizing Study recommended, EVEN No.:

540MB DISCs FMSO Sizing Study recommended, EVEN No.:

Non-6100 ASYNC Controllers to be installed:

Non-6100 ASYNC EXTENSION BOARDS to be installed per controller (0/1/2):

BIT SYNC LINES to be supported:

BYTE SYNC LINES to be supported:

TRI-DENSITY TAPE DRIVES to be installed:
(Ensure fixed disk archival back-up drives are included)

READER/PUNCHES to be installed:

CARD READERS to be installed:

1000 LPM PRINTERS to be installed:

600 LPM PRINTERS to be installed:

LCN TRUNKS required for the network:

6100 LINE INTERFACE UNITS:

PERKIN-ELMER Local Computer Network interfaces:

Burroughs B4800 Local Computer Network interfaces:

Burroughs B4900 Local Computer Network interfaces:

IBM System Local Computer Network interfaces:
APPENDIX A: USER'S MANUAL

UNIVAC System Local Computer Network interfaces: 

FIPS Standard Local Computer Network interfaces: 

TANDEM HYPERchannels to be installed: 

PATCH PANEL CABINETS: 
(additional for reserve and expansion) 

SYSTEM CABINETS: 
(additional for reserve and expansion) 

EXPANSION CABINET(S): 
(additional for reserve and expansion) 

HYPERchannel Adapter Cabinet(s) required: 

Estimate the distance between the two most distant Computers on the Local Computer Network, Range - 
(1 to 5000 feet): 

100
APPENDIX A: USER's MANUAL

SOFTWARE SELECTIONS:

File Security System Software (Yes/No)?

LCN File Utility Package Software (Yes/No)?

ATP 6100 Software (Yes/No)?

BSC 6100 Software (Yes/No)?

ADCCP 6100 Software (Yes/No)?

BURROUGHS POLL/SELECT 6100 Software (Yes/No)?

SNAAX and SNAAX/HLS 6100 Software (Yes/No)?

TINET 6100 Software (Yes/No)?

TR 3271 Software (Yes/No)?

AM 6520 Software (Yes/No)?

T-TEXT Software (Yes/No)?

FDC SNA Interface Software (Yes/No)?

FDC DLANet Interface Software (Yes/No)?

DDN Interface Software (Yes/No)?

NETWORK MAINTENANCE FACILITY (NMF):

NMF Group Package Software (Yes/No)?

NMF Base Facility Software (Yes/No)?

NMF Performance Monitoring Software (Yes/No)?

NMF Diagnostic Monitoring Software (Yes/No)?

NMF Accounting Application Software (Yes/No)?

NETEX MAINTENANCE MONTHS for this order:

SPLICENet MAINTENANCE MONTHS for this order:
DOCUMENTATION SELECTIONS:

COMPUTER OPERATIONS MANUAL sets required: 

SYSTEMS PROGRAMMER MANUAL sets required: 

HARDWARE MANUAL sets required: 

PROGRAMMER REFERENCE MANUAL sets required: 

TRAINING SELECTIONS:

Select Training Group to be ordered 
(Group I-IV / None): 

OPERATOR TRAINING COURSES required: 

HARDWARE OVERVIEW COURSES required: 

SYSTEMS RESOURCE MANAGEMENT COURSES required: 

SYSTEMS TUNING AND XRAY COURSES required: 

DATA COMMUNICATIONS COURSES required: 

TAL COURSES required: 

SPLICENet Migration Workshop COURSES required: 

MAINTENANCE AND SITE PREP SELECTIONS:

EMERGENCY PER-CALL MAINTENANCE months required: 

Should we include SITE PREPS in this run? (Yes/No): 
FUNCTION SELECTION MENU

Stock Point Logistics Integrated Communications Environment

SPLICE

1 - Configure a site using the SPLICE Configurer
2 - Perform financial analysis of a site using LOTUS 1-2-3
3 - Interact with the Configuration Management System
4 - Review the USER'S MANUAL
5 - Return to the DASE prompt
6 - Return to the DOS Operating System prompt

Please enter your choice: 

SCREEN 1

NAVAL SUPPLY SYSTEMS COMMAND

STOCK POINT LOGISTICS INTEGRATED COMMUNICATIONS ENVIRONMENT

SPLICE

SYSTEM CONFIGURER

Version 1.1
December 1995

SCREEN 2

103
LISTING OF SPLICE SITES

01 ASO PHILADELPHIA
02 FMSO MECHANICSBURG
03 FMSO MECHANICSBURG
04 MCAS CHERRY POINT
05 MCAS EL TORO
06 MCAF QUANTICO
07 MCAS YUMA
08 NAC INDIANAPOLIS
09 NARDAC JACKSONVILLE
10 NARDAC NEW ORLEANS
11 NARDAC NORFOLK
12 NARDAC PENSACOLA
13 NARDAC SAN DIEGO
14 NARDAC SAN FRANCISCO
15 NARDAC WASHINGTON
16 NAS BARBERS POINT
17 NAS BRUNSWICK
18 NAS CECIL FIELD
19 NAS KEY WEST
20 NAEC LAKE HURST
21 NAS MEMPHIS
22 NAS MIRAMAR
23 NAS OCEANA (INACTIVE)
24 NAS PENSACOLA
25 NAS WHIDBEY ISLAND
26 NATC PATUXENT RIVER
27 PMTC POINT MUGU
28 NAVDAF CURTIS CHRISTI
29 NAVDAF GREAT LAKES
30 NAVDAF LEMOURE
31 NAVDAF MOFFETT FIELD
32 NAVDAF ORLANDO
33 NRCC LONG BEACH
34 NRCC NEWPORT
35 NRCC PHILADELPHIA
36 NRCC WASHINGTON
37 NWES KEYPORT
38 NAVSTA MAYPORT
39 NSC CHARLESTON
40 NSC NORFOLK
41 NSC OAKLAND
42 NSC PEARL HARBOR
43 NSC PUGET SOUND
44 NSC SAN DIEGO
45 NSU GUAM
46 NSU SUBIC BAY
47 NSU YOKOSUKA
48 NSU PHILADELPHIA
49 NSY PORTSMOUTH
50 NTC SAN DIEGO
51 SPCC MECHANICSBURG
52 SUBASE KINGS BAY
53 SUBASE NEW LONDON
54 SUBASE PEARL HARBOR
55 SWFPAC BREMERTON
56 TRF BANGOR
57 SWFLAN KINGS BAY
58 TRF KINGS BAY
59 TO BE DETERMINED
60 TO BE DETERMINED
61 TO BE DETERMINED
APPENDIX A: USER's MANUAL

SYSTEM COMPONENTS

HARDWARE

PERKIN-ELMER

BURROUGHS 4800

BURROUGHS 4900

IBM System

UNIVAC System

FIPS Standard

Tandem HYPERchannel

CABINETS

MAX DISTANCE BETWEEN COMPUTERS

(A) 1 - 500 FT

(B) 501 - 1000 FT

(C) 1001 - 1500 FT

(D) 1501 - 2500 FT

(E) 2501 - 4000 FT

(F) 4001 - 5000 FT

SCREEN 5

SYSTEM COMPONENTS

HARDWARE

PERKIN-ELMER

BURROUGHS 4800

BURROUGHS 4900

IBM System

UNIVAC System

FIPS Standard

Tandem HYPERchannel

CABINETS

MAX DISTANCE BETWEEN COMPUTERS

(A) 1 - 500 FT

(B) 501 - 1000 FT

(C) 1001 - 1500 FT

(D) 1501 - 2500 FT

(E) 2501 - 4000 FT

(F) 4001 - 5000 FT

SCREEN 6

105
## APPENDIX A: USER'S MANUAL

## SOFTWARE RELATED INPUTS

<table>
<thead>
<tr>
<th>SOFTWARE PACKAGES</th>
<th>SOFTWARE PACKAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>File Security</td>
<td>FOC SNA Interface</td>
</tr>
<tr>
<td>LCN File Utility Package</td>
<td>FOC ULANET Interface</td>
</tr>
<tr>
<td>6100 Packages</td>
<td>UDN Interface</td>
</tr>
<tr>
<td>ATP</td>
<td>NMF Group</td>
</tr>
<tr>
<td>BSC</td>
<td>NMF Packages</td>
</tr>
<tr>
<td>ADCCP</td>
<td>Base Facility</td>
</tr>
<tr>
<td>Burroughs Poll Select</td>
<td>Performance Monitoring</td>
</tr>
<tr>
<td>SNA and SNAx/ILS</td>
<td>Diagnostic Monitoring</td>
</tr>
<tr>
<td>MINEIT</td>
<td>Accounting Application</td>
</tr>
<tr>
<td>1P 3271</td>
<td></td>
</tr>
<tr>
<td>AM 6520</td>
<td></td>
</tr>
<tr>
<td>I-text</td>
<td></td>
</tr>
</tbody>
</table>

### MONTHS OF SOFTWARE MAINTENANCE

- NETEX Maintenance Months
- SPLICE.net Maintenance Months

## SCREEN 7

### DOCUMENTATION, TRAINING & MAINTENANCE INPUTS

<table>
<thead>
<tr>
<th>DOCUMENTATION MANUALS</th>
<th>TRAINING GROUPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Operations</td>
<td>(1) Group I</td>
</tr>
<tr>
<td>Programmer Reference</td>
<td>(2) Group II</td>
</tr>
<tr>
<td>Hardware</td>
<td>(3) Group III</td>
</tr>
<tr>
<td>Systems Programmer</td>
<td>(4) Group IV</td>
</tr>
<tr>
<td>EMERGENCY MAIN</td>
<td>(5) None</td>
</tr>
<tr>
<td>EMERGENCY PULL-CALL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Include Changes? (Yes or No)</td>
</tr>
</tbody>
</table>

### SCREEN 8

106
SCREEN 9

A1:

READY

A B C D E F G

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

SCREEN 10

107
APPENDIX A: USER'S MANUAL

A1:
Enter name of file to retrieve:
- SKELETON
- MAINTORD

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

SCREEN 11

A1:

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
</tbody>
</table>

SCREEN 12

108
APPENDIX A: USER's MANUAL

A1: 'READY

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site</td>
<td>44</td>
<td>NSC SAN DIEGO, CA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardware</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Feature</td>
<td>Line No. Numbers</td>
<td>Description</td>
<td>Qty</td>
<td>Unit Price</td>
</tr>
<tr>
<td>14</td>
<td>440101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>8</td>
</tr>
<tr>
<td>15</td>
<td>440102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>8</td>
</tr>
<tr>
<td>16</td>
<td>440104</td>
<td>013001</td>
<td>OSP WITH 6530</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>440105</td>
<td>013101</td>
<td>CENTRONIX PRINTER</td>
<td>2</td>
</tr>
<tr>
<td>18</td>
<td>440106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>17</td>
</tr>
<tr>
<td>19</td>
<td>440107</td>
<td>013202</td>
<td>PRINTER INTERFACE</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>440108</td>
<td>015001</td>
<td>PATCH PANEL CABINET</td>
<td>2</td>
</tr>
</tbody>
</table>

SCREEN 13

PROCESS SELECTION MENU

Stock Point Logistics Integrated Communications Environment

SPLICE

1 - Load a new DELIVERY ORDER into the database
2 - Perform maintenance on the EQUIPMENT File
3 - Perform maintenance on the EQUIPMENT DESCRIPTION File
4 - Perform maintenance on the SITE NAME File
5 - Perform maintenance on the MANUAL File
6 - Perform maintenance on the SERIAL NUMBER File
7 - Generate REPORTS for the Project, a Site or Equipment
8 - Generate a MAINTENANCE DELIVERY ORDER for a SPLICE Site
9 - Generate MAILING LABELS for all SPLICE Sites

0 - RETURN to the Function Selection Menu

Please enter your choice: -

SCREEN 14
APPENDIX A: USER's MANUAL

DELIVERY ORDER LOAD MENU

[1] Load a new delivery order
[2] Return to the Main Menu

SCREEN 15

DELIVERY ORDER LOADING SELECTION MENU

LOTUS 1-2-3 output file name to load: ●●●●●●.PRN
Effective Date of the Delivery Order: ●●●●
YYMMDD
Site Number on the Delivery Order: ●
Enter the Site Number to be loaded: ●

Do you want to enter another Delivery Order? (Yes or No): ●

SCREEN 16
EQUIPMENT MAINTENANCE SELECTION MENU

[1] Modify Database Entries
[3] Return to the Main Menu

SCREEN 17

EQUIPMENT UPDATE FORMAT

Current Record #: *******

Site Number:    Effective Date of Delivery Order:  *******
                YYMMDD

Feature Number:  *******
CLIN Nomenclature/Description:  ******
Quantity Ordered:    *******

Basic Unit Cost:  *******
Monthly Maintenance Cost:  *******
Unit Installation Cost:  *******

Enter N - next record, P - previous record or X - exit:  

SCREEN 18
EQUIPMENT REVIEW FORMAT

Current Record #: ******

Site Number: ****** Effective Date of Delivery Order: ****** YYMMDD

Contract Line Item Number (CLIN): ******
Feature Number: ******
CLIN Nomenclature/Description: ******
Quantity Ordered: ******

Basic Unit Cost: ******
Monthly Maintenance Cost: ******
Unit Installation Cost: ******

Enter N - next record, P - previous record or X - exit: ******

SCREEN 19

EQUIPMENT DESCRIPTION MAINTENANCE MENU

[1] Modify Database Entries
[3] Return to the Main Menu

SCREEN 20
APPENDIX A: USER's MANUAL

DESCRIPTION UPDATE FORMAT

Current Record #: 

Feature Number: 

Contract Line Item Number (CLIN): 

CLIN Nomenclature / Description: 

TANDEM Model Number: 

FDC Model Number: 

Type of Component: 

Base Maintenance Price: 

Notes: 

Enter N - next record, P - previous record or X - exit:

SCREEN 21

EQUIPMENT DESCRIPTION EDITING/TERMINATION INFORMATION

1. To edit the NOTES field, ensure the cursor is on the word "memo" and press the <CTRL> and "PgDn" keys together.

2. To EXIT the internal editor and SAVE the changes made to the NOTES field, press the <CTRL> and "W" keys together.

3. To EXIT the internal editor WITHOUT SAVING the changes made to the NOTES field, press the <ESC> key. This will return you to the full screen mode for the record being changed.

4. To SAVE the changes made by the internal editor and return to the configuration program, press the <CTRL> and "W" keys together.

5. To return to the configuration program WITHOUT SAVING the changes made by the internal editor, press the <ESC> key.

Press ENTER to continue

SCREEN 22

113
APPENDIX A: USER'S MANUAL

DESCRIPTION REVIEW FORMAT

Current Record #: ■■■■■

Feature Number: ■■■■■

Contract Line Item Number (CLIN): ■■■■

CLIN Nomenclature / Description: ■■■■■■■■■■■■■■■■■■■■■■

TANDEM Model Number: ■■■■■

FDC Model Number: ■■■■■■■■

Type of Component: ■

Base Maintenance Price: ■■■ ■

Notes:

Enter N - next record, P - previous record or X - exit:

SCREEN 23

SITE NAME MAINTENANCE MENU

[1] Modify DataBase Entries
[3] Return to the Main Selection Menu

SCREEN 24
### SITE ADDRESS DATA UPDATE FORMAT

**Current Record #: ******

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>**</td>
</tr>
<tr>
<td>Abbreviated Name</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Commander's Title</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Full Name</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Address - Line 1</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Address - Line 2</td>
<td>*****************************************</td>
</tr>
<tr>
<td>City</td>
<td>*****************************************</td>
</tr>
<tr>
<td>State</td>
<td>**</td>
</tr>
<tr>
<td>Zip Code</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Type Activity</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Maintenance Option</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Maintenance Response Time</td>
<td>**</td>
</tr>
</tbody>
</table>

Enter N - next record, P - previous record or X - exit:

**SCREEN 25**

---

### SITE ADDRESS DATA UPDATE FORMAT

**Current Record #: ******

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>**</td>
</tr>
<tr>
<td>Abbreviated Name</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Commander's Title</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Full Name</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Address - Line 1</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Address - Line 2</td>
<td>*****************************************</td>
</tr>
<tr>
<td>City</td>
<td>*****************************************</td>
</tr>
<tr>
<td>State</td>
<td>**</td>
</tr>
<tr>
<td>Zip Code</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Type Activity</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Maintenance Option</td>
<td>*****************************************</td>
</tr>
<tr>
<td>Maintenance Response Time</td>
<td>**</td>
</tr>
</tbody>
</table>

Enter N - next record, P - previous record or X - exit:

**SCREEN 26**
### Manual Maintenance Menu

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Add a new manual description</td>
</tr>
<tr>
<td>2</td>
<td>Update existing description(s)</td>
</tr>
<tr>
<td>3</td>
<td>Delete existing description(s)</td>
</tr>
<tr>
<td>4</td>
<td>Review existing description(s)</td>
</tr>
<tr>
<td>5</td>
<td>Return to the Main Menu</td>
</tr>
</tbody>
</table>

**Screen 27**

### Manual Addition Format

Current Record #:  

Site Number:  

Feature Number:  

Contract Line Item Number (CLIN):  

CLIN Nomenclature/Description:  

Manual Description:  

Enter N - next record, P - previous record or X - exit:  

**Screen 28**
APPENDIX A: USER'S MANUAL

MANUAL UPDATE FORMAT

Current Record #: ******
Site Number:  
Feature Number: ******
Contract Line Item Number (CLIN): ******
CLIN Nomenclature/Description: ******
Manual Description: ******

Enter N - next record, P - previous record or X - exit: 

SCREEN 29

MANUAL DELETION FORMAT

Current Record #: ******
Site Number:  
Feature Number: ******
Contract Line Item Number (CLIN): ******
CLIN Nomenclature/Description: ******
Manual Description: ******

Enter N - next record, P - previous record or X - exit: 

SCREEN 30
APPENDIX A: USER's MANUAL

MANUAL REVIEW FORMAT

Current Record #: ******

Site Number: ******

Feature Number: ******
Contract Line Item Number (CLIN): ******
CLIN Nomenclature/Description: ******

Manual Description: ******

Enter N - next record, P - previous record or X - exit: ******

SCREEN 31

SERIAL NUMBER MAINTENANCE MENU

[1] CHANGE an existing Serial Number
[2] REVIEW existing Serial Numbers
[3] Return to the Main Menu

SCREEN 32
In order for the user to be able to perform a SERIAL NUMBER update, three (3) data elements must be known:
1: The SITE NUMBER
2: The EFFECTIVE DATE of the delivery order
3: The FEATURE NUMBER of the serial number to be modified

If all three of these elements are not known, the user should terminate the update process and request a DATE LEVEL REPORT for the site number in question (Option "7" on the PROCESS SELECTION MENU followed by option "3" on the REPORT BY TYPE MENU). Any one of the three options will enable the user to view all three of the data elements needed for the Serial Number Update process. Once all three data elements have been obtained, the user can then select the Serial Number Update option.

Please select the option desired below:

[1] Continue with the Serial Number Update process.

[2] Exit the Serial Number Update process to obtain a DATE LEVEL Report and the three required data elements.
APPENDIX A: USER'S MANUAL

SERIAL NUMBER REVIEW FORMAT

Current Record #: *******

Site Number: ******  Effective Date of Delivery Order: ****** YYMMDD

Contract Line Item Number (CLIN): *******
Feature Number: *******
CLIN Nomenclature/Description: ************************************************
Quantity Ordered: *******

Serial Number sub-record ******* of *******
Serial Number: *******

Enter N - next record, P - previous record or X - exit: ******

SCREEN 35

REPORT BY TYPE MENU

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] Overall PROJECT Report</td>
<td></td>
</tr>
<tr>
<td>[2] Report for a particular SITE</td>
<td></td>
</tr>
<tr>
<td>[3] Report for a DELIVERY ORDER issued on a particular date</td>
<td></td>
</tr>
</tbody>
</table>

SCREEN 36

120
ATTENTION!
1. Turn on your printer.
2. Insert paper.
3. Position to top edge.

Press ENTER to continue

SCREEN 37

PROJECT LEVEL REPORTS

[1] Report by EQUIPMENT Type
[3] Return to the Reports Level Menu

SCREEN 38
APPENDIX A: USER'S MANUAL

EQUIPMENT PROJECT LEVEL REPORT

Do you want a printed report? (Yes or No): N

Enter C to continue or X to exit:

SCREEN 39

EQUIPMENT PROJECT LEVEL REPORT

<table>
<thead>
<tr>
<th>CLIN</th>
<th>FEATURE#</th>
<th>DESCRIPTION</th>
<th>UTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>000101</td>
<td>SITE POWER PREPARATIONS</td>
<td>2</td>
</tr>
<tr>
<td>0101</td>
<td>010201</td>
<td>NS-TP, 2 MEG</td>
<td>22</td>
</tr>
<tr>
<td>0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>22</td>
</tr>
<tr>
<td>0104</td>
<td>013001</td>
<td>USP WITH 6530</td>
<td>2</td>
</tr>
<tr>
<td>0105</td>
<td>013101</td>
<td>CENTRONIX PRINTER</td>
<td>5</td>
</tr>
<tr>
<td>0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>50</td>
</tr>
<tr>
<td>0107</td>
<td>013202</td>
<td>PRINTER INTERFACE</td>
<td>2</td>
</tr>
<tr>
<td>0108</td>
<td>015001</td>
<td>PATCH PANEL CABINET</td>
<td>5</td>
</tr>
<tr>
<td>0109</td>
<td>015101</td>
<td>SYSTEMS CABINET</td>
<td>2</td>
</tr>
<tr>
<td>0110</td>
<td>015201</td>
<td>I/O POWER MODULE</td>
<td>1</td>
</tr>
<tr>
<td>0110</td>
<td>015301</td>
<td>EXPANSION CABINET</td>
<td>1</td>
</tr>
<tr>
<td>0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>1</td>
</tr>
<tr>
<td>0113</td>
<td>016101</td>
<td>THL PATCH PANEL</td>
<td>1</td>
</tr>
<tr>
<td>0114</td>
<td>016201</td>
<td>SYNC PATCH PANEL</td>
<td>1</td>
</tr>
<tr>
<td>0115</td>
<td>016301</td>
<td>SYNC PATCH PANEL</td>
<td>1</td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit:

SCREEN 40
APPENDIX A: USER'S MANUAL

EQUIPMENT SERIAL NUMBER PROJECT LEVEL REPORT

Do you want a printed report? (Yes or No): N

Enter C to continue or X to exit:

SCREEN 41

EQUIPMENT SERIAL NUMBER PROJECT LEVEL REPORT

<table>
<thead>
<tr>
<th>SITE CLIN</th>
<th>FEATURE#</th>
<th>DESCRIPTION</th>
<th>EFFECT DATE</th>
<th>TOT COMPT QTY</th>
<th>SERIAL NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>841127</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>01 0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>841127</td>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>01 0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>841127</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>01 0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>841127</td>
<td>9</td>
<td>1</td>
</tr>
<tr>
<td>01 0104</td>
<td>013001</td>
<td>OSP WITH 6530</td>
<td>841127</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>01 0105</td>
<td>013101</td>
<td>CENTRONIX PRINTER</td>
<td>841127</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>01 0105</td>
<td>013101</td>
<td>CENTRONIX PRINTER</td>
<td>841127</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>01 0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>841127</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>01 0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>841127</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td>01 0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>841127</td>
<td>25</td>
<td>23</td>
</tr>
<tr>
<td>01 0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>841127</td>
<td>25</td>
<td>22</td>
</tr>
<tr>
<td>01 0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>841127</td>
<td>25</td>
<td>21</td>
</tr>
<tr>
<td>01 0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>841127</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>01 0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>841127</td>
<td>25</td>
<td>19</td>
</tr>
<tr>
<td>01 0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>841127</td>
<td>25</td>
<td>18</td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit: C

SCREEN 42

123
SITE LEVEL REPORTS

[1] Report by EQUIPMENT type
[4] Return to the Reports Level Menu

SCREEN 43

EQUIPMENT SITE LEVEL REPORT

Enter site number for which the report is desired: 01

SCREEN 44
APPENDIX A: USER's MANUAL

EQUIPMENT SITE LEVEL REPORT

Do you want a printed report? (Yes or No): N

Enter C to continue or X to exit:

SCREEN 45

EQUIPMENT SITE LEVEL REPORT

<table>
<thead>
<tr>
<th>SITE</th>
<th>CLIN</th>
<th>FEATURE#</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>0001</td>
<td>000101</td>
<td>SITE POWER PREPARATIONS</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>13</td>
</tr>
<tr>
<td>40</td>
<td>0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>13</td>
</tr>
<tr>
<td>40</td>
<td>0104</td>
<td>013001</td>
<td>DSP WITH 6530</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>0105</td>
<td>013101</td>
<td>CENTRONIX PRINTER</td>
<td>3</td>
</tr>
<tr>
<td>40</td>
<td>0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>25</td>
</tr>
<tr>
<td>40</td>
<td>0107</td>
<td>013202</td>
<td>PRINTER INTERFACE</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>0108</td>
<td>015001</td>
<td>PATCH PANEL CABINET</td>
<td>3</td>
</tr>
<tr>
<td>40</td>
<td>0109</td>
<td>015101</td>
<td>SYSTEMS CABINET</td>
<td>4</td>
</tr>
<tr>
<td>40</td>
<td>0110</td>
<td>015201</td>
<td>1/O POWER MODULE</td>
<td>12</td>
</tr>
<tr>
<td>40</td>
<td>0109</td>
<td>015301</td>
<td>EXPANSION CABINET</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>5</td>
</tr>
<tr>
<td>40</td>
<td>0113</td>
<td>016101</td>
<td>THL PATCH PANEL</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>0114</td>
<td>016201</td>
<td>ASYNC PATCH PANEL</td>
<td>2</td>
</tr>
<tr>
<td>40</td>
<td>0115</td>
<td>016301</td>
<td>SYNC PATCH PANEL</td>
<td>2</td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit: C

SCREEN 46
Enter site number for which the report is desired: 01

Do you want a printed report? (Yes or No): N

Enter C to continue or X to exit:

SCREEN 48
### SITE LEVEL MANUAL REPORT

<table>
<thead>
<tr>
<th>SITE</th>
<th>CLIN</th>
<th>FEATURE#</th>
<th>DESCRIPTION</th>
<th>MANUAL DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0104</td>
<td>013001</td>
<td>OSP WITH 6530</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0105</td>
<td>013101</td>
<td>CENTRONIX PRINTER</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0107</td>
<td>013202</td>
<td>PRINTER INTERFACE</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0108</td>
<td>015001</td>
<td>PATCH PANEL CABINET</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0109</td>
<td>015101</td>
<td>SYSTEMS CABINET</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0110</td>
<td>015201</td>
<td>I/O POWER MODULE</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0111</td>
<td>015301</td>
<td>EXPANSION CABINET</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0113</td>
<td>016101</td>
<td>THL PATCH PANEL</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0114</td>
<td>016201</td>
<td>ASYNC PATCH PANEL</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0115</td>
<td>016301</td>
<td>SYNC PATCH PANEL</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>1101</td>
<td>110101</td>
<td>DISC CONTROLLER</td>
<td></td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit: C

### SCREEN 49

### SITE SERIAL NUMBER REPORT

Enter site number for which the report is desired: 01

Enter C to continue or X to exit:
APPENDIX A: USER's MANUAL

SITE SERIAL NUMBER REPORT

Do you want a printed report? (Yes or No): N

Enter C to continue or X to exit:

SCREEN 51

SITE SERIAL NUMBER REPORT

<table>
<thead>
<tr>
<th>SITE CLIN</th>
<th>FEATURE#</th>
<th>DESCRIPTION</th>
<th>EFFECT DATE</th>
<th>TOT QTY</th>
<th>COMPL QTY</th>
<th>SERIAL NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 0109</td>
<td>015301</td>
<td>EXPANSION CABINET</td>
<td>851207</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>40 0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>851207</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>40 0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>851207</td>
<td>5</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>40 0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>851207</td>
<td>5</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>40 0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>851207</td>
<td>5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>40 0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>851207</td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>40 0113</td>
<td>016101</td>
<td>THL PATCH PANEL</td>
<td>851207</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>40 0114</td>
<td>016201</td>
<td>ASYNC PATCH PANEL</td>
<td>851207</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>40 0114</td>
<td>016201</td>
<td>ASYNC PATCH PANEL</td>
<td>851207</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>40 0115</td>
<td>016301</td>
<td>SYNC PATCH PANEL</td>
<td>851207</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>40 0115</td>
<td>016301</td>
<td>SYNC PATCH PANEL</td>
<td>851207</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>40 1101</td>
<td>110101</td>
<td>DISC CONTROLLER</td>
<td>851207</td>
<td>18</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>40 1101</td>
<td>110101</td>
<td>DISC CONTROLLER</td>
<td>851207</td>
<td>18</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>40 1101</td>
<td>110101</td>
<td>DISC CONTROLLER</td>
<td>851207</td>
<td>18</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>40 1101</td>
<td>110101</td>
<td>DISC CONTROLLER</td>
<td>851207</td>
<td>18</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit: C

SCREEN 52

128
### DELIVERY ORDER DATE LEVEL REPORT

<table>
<thead>
<tr>
<th>[1] EQUIPMENT with unit costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>[2] EQUIPMENT without unit costs</td>
</tr>
<tr>
<td>[3] SERIAL NUMBERS</td>
</tr>
<tr>
<td>[4] RETURN to the Reports Level Menu</td>
</tr>
</tbody>
</table>

**SCREEN 53**

---

**Enter site number for which the report is desired: 01**

**SCREEN 54**
DELIVERY ORDER LEVEL REPORT  
EFFECTIVE DATE: 851207

The following Delivery Order Effective Dates exist for Site 40:

<table>
<thead>
<tr>
<th>Date 1</th>
<th>Date 2</th>
<th>Date 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>851207</td>
<td>841127</td>
<td>850404</td>
</tr>
<tr>
<td>851020</td>
<td>851110</td>
<td></td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit:

SCREEN 55

DELIVERY ORDER LEVEL REPORT  
EFFECTIVE DATE: 851207

Do you want a printed report? (Yes or No): N

Enter C to continue or X to exit:

SCREEN 56

130
### APPENDIX A: USER's MANUAL

#### DELIVERY ORDER LEVEL REPORT

**EFFECTIVE DATE:** 851207

<table>
<thead>
<tr>
<th>SITE</th>
<th>CLIN</th>
<th>FEATURE#</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>UNIT PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>0001</td>
<td>000101</td>
<td>SITE POWER PREPARATIONS</td>
<td>1</td>
<td>101886.00</td>
</tr>
<tr>
<td>40</td>
<td>0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>13</td>
<td>86750.00</td>
</tr>
<tr>
<td>40</td>
<td>0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>13</td>
<td>19800.00</td>
</tr>
<tr>
<td>40</td>
<td>0104</td>
<td>013001</td>
<td>OSP WITH 6530</td>
<td>1</td>
<td>13387.50</td>
</tr>
<tr>
<td>40</td>
<td>0105</td>
<td>013101</td>
<td>CENTRONIX PRINTER</td>
<td>3</td>
<td>1615.50</td>
</tr>
<tr>
<td>40</td>
<td>0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>25</td>
<td>2317.50</td>
</tr>
<tr>
<td>40</td>
<td>0107</td>
<td>013202</td>
<td>PRINTER INTERFACE</td>
<td>1</td>
<td>409.50</td>
</tr>
<tr>
<td>40</td>
<td>0108</td>
<td>015001</td>
<td>PATCH PANEL CABINET</td>
<td>3</td>
<td>2250.00</td>
</tr>
<tr>
<td>40</td>
<td>0109</td>
<td>015101</td>
<td>SYSTEMS CABINET</td>
<td>4</td>
<td>14220.00</td>
</tr>
<tr>
<td>40</td>
<td>0110</td>
<td>015201</td>
<td>I/O POWER MODULE</td>
<td>12</td>
<td>3150.00</td>
</tr>
<tr>
<td>40</td>
<td>0109</td>
<td>015301</td>
<td>EXPANSION CABINET</td>
<td>1</td>
<td>2250.00</td>
</tr>
<tr>
<td>40</td>
<td>0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>5</td>
<td>697.50</td>
</tr>
<tr>
<td>40</td>
<td>0113</td>
<td>016101</td>
<td>THL PATCH PANEL</td>
<td>1</td>
<td>315.00</td>
</tr>
<tr>
<td>40</td>
<td>0114</td>
<td>016201</td>
<td>ASYNC PATCH PANEL</td>
<td>2</td>
<td>697.50</td>
</tr>
<tr>
<td>40</td>
<td>0115</td>
<td>016301</td>
<td>SYNC PATCH PANEL</td>
<td>2</td>
<td>697.50</td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit: C

---

**SCREEN 57**

#### DELIVERY ORDER LEVEL REPORT

Enter site number for which the report is desired:

Enter C to continue or X to exit:

---

**SCREEN 58**
DELIVERY ORDER LEVEL REPORT
EFFECTIVE DATE: 851207

The following Delivery Order Effective Dates exist for Site 40

<table>
<thead>
<tr>
<th>Date</th>
<th>Date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>851207</td>
<td>841127</td>
<td>850404</td>
</tr>
<tr>
<td>851020</td>
<td>851110</td>
<td></td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit:

SCREEN 59

Do you want a printed report? (Yes or No): N

Enter C to continue or X to exit:

SCREEN 60
<table>
<thead>
<tr>
<th>SITE</th>
<th>CLIN</th>
<th>FEATURE#</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>MODEL NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>0001</td>
<td>000101</td>
<td>SITE POWER PREPARATIONS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>13</td>
<td>1432</td>
</tr>
<tr>
<td>40</td>
<td>0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>13</td>
<td>2432</td>
</tr>
<tr>
<td>40</td>
<td>0104</td>
<td>013001</td>
<td>OSP WITH 6530</td>
<td>1</td>
<td>3910</td>
</tr>
<tr>
<td>40</td>
<td>0105</td>
<td>013101</td>
<td>CENTRONIX PRINTER</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0106</td>
<td>013201</td>
<td>6530 CRT</td>
<td>25</td>
<td>6530</td>
</tr>
<tr>
<td>40</td>
<td>0107</td>
<td>013202</td>
<td>PRINTER INTERFACE</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>0108</td>
<td>015001</td>
<td>PATCH PANEL CABINET</td>
<td>3</td>
<td>7105</td>
</tr>
<tr>
<td>40</td>
<td>0109</td>
<td>015101</td>
<td>SYSTEMS CABINET</td>
<td>4</td>
<td>7104</td>
</tr>
<tr>
<td>40</td>
<td>0110</td>
<td>015201</td>
<td>I/O POWER MODULE</td>
<td>12</td>
<td>7301</td>
</tr>
<tr>
<td>40</td>
<td>0109</td>
<td>015301</td>
<td>EXPANSION CABINET</td>
<td>1</td>
<td>7107</td>
</tr>
<tr>
<td>40</td>
<td>0112</td>
<td>016001</td>
<td>DISC PATCH PANEL</td>
<td>5</td>
<td>7504</td>
</tr>
<tr>
<td>40</td>
<td>0113</td>
<td>016101</td>
<td>THL PATCH PANEL</td>
<td>1</td>
<td>7506</td>
</tr>
<tr>
<td>40</td>
<td>0114</td>
<td>016201</td>
<td>ASYNC PATCH PANEL</td>
<td>2</td>
<td>7501</td>
</tr>
<tr>
<td>40</td>
<td>0115</td>
<td>016301</td>
<td>SYNC PATCH PANEL</td>
<td>2</td>
<td>7502</td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit: C

**SCREEN 61**

**SITE SERIAL NUMBER REPORT**

Enter site number for which the report is desired: 01

Enter C to continue or X to exit: C

**SCREEN 62**

133
The following Delivery Order Effective Dates exist for Site 40:

- 851207
- 851020
- 841127
- 850404
- 851110

Do you want a printed report? (Yes or No): N

Enter C to continue or X to exit:
SITE SERIAL NUMBER REPORT
EFFECTIVE DATE: 851207

<table>
<thead>
<tr>
<th>SITE CLIN</th>
<th>FEATURE#</th>
<th>DESCRIPTION</th>
<th>EFFECT DATE</th>
<th>TOT QTY</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 0001</td>
<td>000101</td>
<td>SITE POWER PREPARATIONS</td>
<td>851207</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>12</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>11</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>10</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>9</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>8</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>7</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>6</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>4</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>3</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>2</td>
</tr>
<tr>
<td>40 0101</td>
<td>010201</td>
<td>NS-TXP, 2 MEG</td>
<td>851207</td>
<td>13</td>
<td>1</td>
</tr>
<tr>
<td>40 0102</td>
<td>010301</td>
<td>2 MEG MEMORY</td>
<td>851207</td>
<td>13</td>
<td>13</td>
</tr>
</tbody>
</table>

Enter C to continue or X to exit: C

SCREEN 65

MAINTENANCE DELIVERY ORDER GENERATION PROGRAM

Generate maintenance Delivery Order for Site Number: 40

DISCOUNT and ESCALATION RATES

Values input are added to one (1) to generate the correct discount or escalation rates

LCN Hardware Maintenance Escalation Rate: 0.100
LCN Software Maintenance Escalation Rate: 0.100
SPLICE/Net Maintenance Discount Rate: 0.000
Site Maintenance Escalation Rate: 0.822

File name to be imported into LOTUS 1-2-3: NEWDO.PRN

SCREEN 66
MAILING LABEL GENERATION PROGRAM

Number of copies for each label: 01

Site Number: 01

SPlice SITE MAILING LABELS

SCREEN 67
APPENDIX A: USER'S MANUAL

INSTALLATION PROCEDURES

Before using the integrated Configuration Management System, make a backup copy of all five disks. Work with the backup copy and store the original disks safely away. This will allow the initial files to be restored if files are erased, damaged or an accident occurs.

Before the integrated Configuration Management System may be used, it must be installed on a micro-computer. Installation is easily accomplished using a DOS command batch file supplied on the Initial Startup Disk. Programs were developed on an IBM-PC environment and tested on an IBM-PC AT. System performance on other than a 100% IBM compatible configuration is unknown and without guarantee.

The integrated Configuration Management System must be run on a hard disk system configuration. This is a limitation caused by the size and number of dBASE files which are part of the system.

The integrated Configuration Management System consists of five disks, one installation disk and four system disks. Each disk is labelled to reflect the portion of the system residing on each disk. The label identifies the directory where the system files must be loaded. Three directories will be created during the installation process if they do not already exist. These directory names may not be modified. System execution is dependent on files existing in predefined locations.

Ensure the system default drive is the hard disk where the integrated system is to be loaded (ex: C> or D>, etc.). Start system installation by placing the disk labelled Initial Startup Disk in drive A. Type the command STARTUP and follow the instructions and messages displayed on the screen.
APPENDIX B

THE NAVAL SUPPLY SYSTEMS COMMAND
STOCK POINT LOGISTICS INTEGRATED COMMUNICATIONS ENVIRONMENT
(SPLICE)
SYSTEM CONFIGURER AND CONFIGURATION MANAGEMENT SYSTEM
MAINTENANCE MANUAL

Document No. BBC - 02
1 January 1986
Record of Changes

Original

1 February 1986
List of Effective Pages

Page 1 through 285

Original
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record of Changes</td>
<td>2</td>
</tr>
<tr>
<td>List of Effective Pages</td>
<td>3</td>
</tr>
<tr>
<td>Table of Contents</td>
<td>4</td>
</tr>
<tr>
<td>Overall System Data Flow Diagram</td>
<td>7</td>
</tr>
<tr>
<td>Configurer Data Flow Diagram (Level 1)</td>
<td>8</td>
</tr>
<tr>
<td>File Description Example</td>
<td>9</td>
</tr>
<tr>
<td>Data Flow Description Example</td>
<td>11</td>
</tr>
<tr>
<td>Process Description Example</td>
<td>12</td>
</tr>
<tr>
<td>Configurer Structure Chart (Overview - Level 0)</td>
<td>14</td>
</tr>
<tr>
<td>Configurer Structure Chart (Level 1)</td>
<td>15</td>
</tr>
<tr>
<td>Configurer Structure Chart (Level 2)</td>
<td>16</td>
</tr>
<tr>
<td>Module Description Example</td>
<td>17</td>
</tr>
<tr>
<td>Pascal Configurer Record Descriptions</td>
<td>20</td>
</tr>
<tr>
<td>Configuration Input Data File (CONFIG.SIT)</td>
<td>22</td>
</tr>
<tr>
<td>Input Data File (COSTS.IN)</td>
<td>24</td>
</tr>
<tr>
<td>Configuration Management System Bachmann Diagram</td>
<td>28</td>
</tr>
<tr>
<td>dBASE III Data Base Structure Descriptions</td>
<td>29</td>
</tr>
<tr>
<td>dBASE III Configuration Management System Indices Composition</td>
<td>32</td>
</tr>
<tr>
<td>dBASE III Configuration Management System Program Invocation Sequences</td>
<td>33</td>
</tr>
<tr>
<td>Pascal SPLICE Configurer Program Source Code</td>
<td>34</td>
</tr>
<tr>
<td>dBASE III Configuration Management System Program Module Source Code:</td>
<td>141</td>
</tr>
</tbody>
</table>
APPENDIX B: MAINTENANCE MANUAL

CONFMOD.PRG -------------------------------------------- 102
CONFREV.PRG -------------------------------------------- 104
CONFUPD.PRG -------------------------------------------- 108
DATERPTS.PRG ------------------------------------------- 114
DELAY.PRG ---------------------------------------------- 116
DESPMOD.PRG -------------------------------------------- 117
DESPPREV.PRG ------------------------------------------- 119
DESPPUPD.PRG ------------------------------------------- 123
EQPDTNPC.PRG ------------------------------------------- 130
EQPDTPRC.PRG ------------------------------------------- 140
EQPPJRPT.PRG ------------------------------------------- 150
EQPSTRPT.PRG ------------------------------------------- 155
EQUIPCMD.PRG ------------------------------------------- 161
EQUIPREV.PRG ------------------------------------------- 163
EQUIPPUD.PRG ------------------------------------------- 169
MAINMENU.PRG ------------------------------------------- 176
MAINTDO.PRG ------------------------------------------- 179
MANULADD.PRG ------------------------------------------- 184
MANULCMD.PRG ------------------------------------------- 191
MANULDEL.PRG ------------------------------------------- 193
MANULREV.PRG ------------------------------------------- 198
MANULUPD.PRG ------------------------------------------- 204
MKLABELS.PRG ------------------------------------------- 211
MNLSTRPT.PRG ------------------------------------------- 216
<table>
<thead>
<tr>
<th>Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEWDOADD.PRG</td>
<td>221</td>
</tr>
<tr>
<td>NEWDCMD.PRG</td>
<td>224</td>
</tr>
<tr>
<td>NEWDOCVT.PRG</td>
<td>226</td>
</tr>
<tr>
<td>PROJRPTS.PRG</td>
<td>235</td>
</tr>
<tr>
<td>REPORCMD.PRG</td>
<td>237</td>
</tr>
<tr>
<td>SELECTOR.PRG</td>
<td>239</td>
</tr>
<tr>
<td>SERNGBLD.PRG</td>
<td>242</td>
</tr>
<tr>
<td>SERNOCMD.PRG</td>
<td>244</td>
</tr>
<tr>
<td>SERNOREV.PRG</td>
<td>246</td>
</tr>
<tr>
<td>SERNOUPD.PRG</td>
<td>252</td>
</tr>
<tr>
<td>SITERPTS.PRG</td>
<td>263</td>
</tr>
<tr>
<td>SNODTRPT.PRG</td>
<td>265</td>
</tr>
<tr>
<td>SNOJRPT.PRG</td>
<td>275</td>
</tr>
<tr>
<td>SNOSTRPT.PRG</td>
<td>280</td>
</tr>
</tbody>
</table>
CONFIGURER DATA FLOW DIAGRAM
LEVEL 1

CONFIG.SIT

BUILD COST ARRAY 1.2

CONFIG.COST DATA

CONFIGURER HARDWARE 1.3

WELCOME 1.1

FMSO SIZING STUDY

NAVSP SPICE CONFIGURATION MANAGEMENT STAFF

TO LOTUS 1-2-3

CONFIGURE SOFTWARE 1.4

M. P. WORK FILE

HSD P. WORK FILE

FILE FROM NAVSP

CONFIGURE DOCUMENTATION 1.6

SPICE.PRN

CONFIGURE TRAINING 1.5

HSD P. WORK FILE

NAVSP STUDY DATA

CONFIGURE MAINTENANCE 1.7
FILE DESCRIPTION

PROJECT: SPLICE CONFIGURER
DATE: 3 September 1985

FILE OR DATABASE NAME: CONFIG.SIT

ALIASES: None

COMPOSITION: The CONFIG.SIT file contains the site specific data associated with all the designated Stock Point Logistics Integrated Communications Environment (SPLICE) sites.

ORGANIZATION: Sequential. The structure of the file is as follows:

<table>
<thead>
<tr>
<th>DATA ELEMENT</th>
<th>TYPE VARIABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Number</td>
<td>Integer</td>
</tr>
<tr>
<td>Site Name</td>
<td>String</td>
</tr>
<tr>
<td>Documentation Site Group</td>
<td>Integer</td>
</tr>
<tr>
<td>Training Site Group</td>
<td>Integer</td>
</tr>
<tr>
<td>Maintenance Option</td>
<td>String</td>
</tr>
<tr>
<td>Maintenance Responsibility</td>
<td>String</td>
</tr>
<tr>
<td>Site Type</td>
<td>String</td>
</tr>
<tr>
<td>Installation Cost</td>
<td>Real</td>
</tr>
</tbody>
</table>

* NOTES: These data elements are not currently designated for implementation, but are specified for use in later revisions.

1. Site Number range can be from one (1) to sixty-two (62). Current only fifty-six (56) sites are designated SPLICE sites and is the upper range limit.

2. Documentation Site Group is used to restrict the maximum number of documentation sets that each site is allowed to receive.

3. Training Site Group is used to restrict the maximum number of training courses that each site is allowed to receive.
4. Maintenance Option and Maintenance Responsibility are used together to establish the maintenance repair and response times desired by each site.

5. Site Type restricts various hardware options to certain designated sites. The value is either "S" or "M". "S" designates a site as a Stock Point which can receive all hardware/software options. "M" designates a site as a Multiple Activity Processing System (MAPS) site which is not permitted to receive Local Computer Network (e.g. HYPERchannel) components.

6. Installation Cost is a one time cost that is paid to the vendor for his initial site survey and installation preparations.
DATA FLOW DESCRIPTION

PROJECT: SPLICE CONFIGURER
DATE: 3 September 1985

DATAFLOW NAME: Config_Data

ALIASES: None

COMPOSITION: The data represented in this flow is the data coming from the input file "CONFIG.SIT". The site number selected for configuration is located within the CONFIG.SIT file and site unique information is extracted. This unique site configuration data is then used to create the site information record. This record is used to determine the maximum limits applicable to sites under configuration, as specified in the notes to the CONFIG.SIT file description. The site information record also is used to determine which repair and maintenance options are to be selected and serves to restrict certain types of options from being selected, depending upon the sites type designation. The Site Preparations Charge is taken from the CONFIG.SIT file and input as the first entry in the COSTTABLE array.

NOTES: The user was previously prompted for the number of the site to be configured.
PROCESS DESCRIPTION

PROJECT: SPLICE CONFIGURER
DATE: 3 September 1985

PROCESS NAME: Build Cost Array

PROCESS NUMBER: 1.2

PROCESS DESCRIPTION:

1. Take a feature number for each element resident in the input cost file and place it in a feature number field in the cost array.

2. Take a contract line item number for each element resident in the input cost file and place it in a contract line item number field in the cost array.

3. Take a nomenclature description for each element resident in the input cost file and place it in an item description field in the cost array.

4. Take the unit maintenance costs from the input cost file and place it in the fourth element of the cost array.

5. Take the unit purchase price from the input cost file and apply a discount rate specified by the user. Place the result in the fifth element of the cost array.

6. Take the unit installation cost from the input cost file and apply an escalation rate specified by the user. Place the result in the sixth element of the cost array.

7. Take the basic monthly maintenance rate from the input cost file and apply an escalation rate specified by the user. Place the result in the seventh element of the cost array.
NOTES: The cost array mentioned on the previous page is a two dimensional memory array. The array contains an entry for every line item identified on the Automated Data Processing Selection Office (ADPSO) SPLICE contract. The maximum number of entries expected is two hundred. This estimate is based upon the maximum number of possible line items that may exist for available selections. The site cost array structure is planned as follows:

<table>
<thead>
<tr>
<th>FEATURE NUMBER</th>
<th>VARIABLE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contract Line Item Number (CLIN)</td>
<td>String</td>
</tr>
<tr>
<td>CLIN Description</td>
<td>String</td>
</tr>
<tr>
<td>Monthly Maintenance</td>
<td>Real</td>
</tr>
<tr>
<td>CLIN Unit Price</td>
<td>Real</td>
</tr>
<tr>
<td>Installation Cost</td>
<td>Real</td>
</tr>
<tr>
<td>Basic Monthly Maintenance Cost</td>
<td>Real</td>
</tr>
</tbody>
</table>
CONFIGURER STRUCTURE CHART

OVERVIEW - LEVEL 0

SUMMARY

CONFIGURE SITE

CONFIGURE COMPONENTS

INITIALIZE
CONFIGURER STRUCTURE CHART - LEVEL 1
MODULE NAME: Print_Software

DATE: 3 September 1985

MODULE PURPOSE: This routine writes software related contract line item numbers (CLINs) to the output disk file. It invokes global procedure LINE_SETUP to generate the CLIN and accumulate section and appropriation totals. The global variable Quantity is used to compute the CLIN extended price and installation costs. The procedure is not used in maintenance computations.

INPUT: None.

OUTPUT: CLIN related data elements written to output disk file are:

- Line_Number String- 7
- CostTable[I].featureno String- 8
- CostTable[I].descript String-28
- Quantity Integer-3
- CostTable[I].purchprice Real-13, 2 decimals
- Extended_Price Real-12, 2 decimals
- CostTable[I].basemaint Real- 9, 2 decimals
- Maint_Factor Real- 8, 3 decimals
- Maint_Months Integer-5
- CostTable[I].basemaint * Maint_Factor * Maint_Months
- CostTable[I].instcost Real- 8, 2 decimals
- CostTable[I].instcost * Quantity
- Downtime_Credit Real- 9, 2 decimals
- CostTable[I].basemaint * Quantity * Maint_Factor
PROCEDURAL DESCRIPTION:

Begin [Print Software]
   CASE Type_Software of
      1: Begin { Per Processor Software }
         Maint_Factor = Momaint_Esc_Cost
         Extended_Price = Quantity * CostTable
      End
      2: Begin { Per Site Software }
         Maint_Factor = Momaint_Esc_Cost
         Extended_Price = CostTable[I].purchprice
      End
      3: Begin { NETEX Software }
         Maint_Factor = 1
         Extended_Price = CostTable[I].purchprice
                        * Quantity
      End
   END [End of CASE Statement]
   CALL LINE_SETUP
   Compute_System_Downtime_Component       * See Notes
   Compute_Downtime_Credit                 * See Notes
   Write_CLIN_Data_Elements_to_Output_Disk_File
   End         [Print_Software]
MODULE DESCRIPTION (Continued)

VARIABLES:

PROGRAM GLOBALS: See CONFIGURE_SITE module description

MODULE LOCALS: None.

PROCEDURE LOCALS:

1: Type_Software - Integer, parameter list variable, Range: 1-3, code controlling which values are assigned to the variables Maint_Factor and Extended_Price.

NOTES:

1. Computation for System_Downtime_Component:
   System_Downtime_Component + (Maint_Factor * Quantity * CostTable[I].basemaint)

2. Computation for Downtime_Credit:
   (((CostTable[I].purchprice +CostTable[I].instcost) /48) +(CostTable[I].basemaint * Maint_Factor)) * 0.005
### PASCAL CONFIGURER RECORD DESCRIPTIONS

1. **COSTS.IN** - file contains the individual contract line items which appear as line items on the generated delivery order.

<table>
<thead>
<tr>
<th>COLUMN POSITION</th>
<th>FIELD LENGTH</th>
<th>DATA ELEMENT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-04</td>
<td>4</td>
<td>Contract Line Item Number (CLIN)</td>
</tr>
<tr>
<td>05</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>06-11</td>
<td>6</td>
<td>Contract Feature Number</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>13-39</td>
<td>27</td>
<td>Component Description</td>
</tr>
<tr>
<td>40-48</td>
<td>9</td>
<td>Basic Contract Maintenance Rate</td>
</tr>
<tr>
<td>49</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>50-60</td>
<td>11</td>
<td>Basic Contract Purchase Price</td>
</tr>
<tr>
<td>61</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>62-69</td>
<td>8</td>
<td>Basic Contract Installation Rate</td>
</tr>
<tr>
<td>70-80</td>
<td>11</td>
<td>Blank (Filler)</td>
</tr>
</tbody>
</table>

**NOTE:** All data elements are left justified. This file is read into a memory array (COSTTABLE). The data elements are modified by the discount and escalation rates entered by the user. The file is maintained in Contract Feature Number sequence, with two exceptions. T-Text and TRANSFER line items are not in Contract Feature Number sequence. Use extreme care when adding components and corresponding line items in the source code. Line items are identified in the source code by using comments. An example of a comment is `{ I=6 Serial Printers }`. 
2. CONFIG.SIT - file contains site specific information used to determine several factors required in the configuration process.

<table>
<thead>
<tr>
<th>COLUMN POSITION</th>
<th>FIELD LENGTH</th>
<th>DATA ELEMENT DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-02</td>
<td>2</td>
<td>Site Number</td>
</tr>
<tr>
<td>03-30</td>
<td>28</td>
<td>Site Name</td>
</tr>
<tr>
<td>31</td>
<td>1</td>
<td>Documentation Site Group</td>
</tr>
<tr>
<td>32</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>33</td>
<td>1</td>
<td>Training Site Group</td>
</tr>
<tr>
<td>34</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>35-38</td>
<td>4</td>
<td>Maintenance Option</td>
</tr>
<tr>
<td>39</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>40</td>
<td>1</td>
<td>Maintenance Responsibility</td>
</tr>
<tr>
<td>41</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>42</td>
<td>1</td>
<td>Site Type (Stock Point or MAP Site)</td>
</tr>
<tr>
<td>43</td>
<td>1</td>
<td>Blank (Filler)</td>
</tr>
<tr>
<td>44-49</td>
<td>6</td>
<td>Installation Cost</td>
</tr>
<tr>
<td>50-80</td>
<td>31</td>
<td>Blank (Filler)</td>
</tr>
</tbody>
</table>

**NOTE:** All data elements are left justified. Site specific information is read into a memory array (SITEINFO). The file is maintained in site number sequence. Site installation costs were obtained from NAVSUP SPLICE personnel. Installation costs reflect costs originally specified in the SPLICE contract. If these costs are not correct or are revised, update the site preparation charges in CONFIG.SIT prior to running the configurer.
### APPENDIX B: MAINTENANCE MANUAL

#### Page 1

<table>
<thead>
<tr>
<th>CONFIG.SIT Program Listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>14</td>
</tr>
<tr>
<td>15</td>
</tr>
<tr>
<td>16</td>
</tr>
<tr>
<td>17</td>
</tr>
<tr>
<td>18</td>
</tr>
<tr>
<td>19</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>21</td>
</tr>
<tr>
<td>22</td>
</tr>
<tr>
<td>23</td>
</tr>
<tr>
<td>24</td>
</tr>
<tr>
<td>25</td>
</tr>
<tr>
<td>26</td>
</tr>
<tr>
<td>27</td>
</tr>
<tr>
<td>28</td>
</tr>
<tr>
<td>29</td>
</tr>
<tr>
<td>30</td>
</tr>
<tr>
<td>31</td>
</tr>
<tr>
<td>32</td>
</tr>
<tr>
<td>33</td>
</tr>
<tr>
<td>34</td>
</tr>
<tr>
<td>35</td>
</tr>
<tr>
<td>36</td>
</tr>
<tr>
<td>37</td>
</tr>
<tr>
<td>38</td>
</tr>
<tr>
<td>39</td>
</tr>
<tr>
<td>40</td>
</tr>
<tr>
<td>41</td>
</tr>
<tr>
<td>42</td>
</tr>
<tr>
<td>43</td>
</tr>
<tr>
<td>44</td>
</tr>
<tr>
<td>45</td>
</tr>
<tr>
<td>46</td>
</tr>
<tr>
<td>47</td>
</tr>
<tr>
<td>48</td>
</tr>
<tr>
<td>49</td>
</tr>
<tr>
<td>50</td>
</tr>
</tbody>
</table>
### APPENDIX B: MAINTENANCE MANUAL

**Page 23**

#### CONFIG.SIT Program Listing

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>51 SPCC MECHANIS BURG, PA</td>
<td>2 2 X</td>
<td>A S 95520.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>52 SUBASE KINGS BAY, GA</td>
<td>4 4 VIII D M 59748.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>53 SUBASE NEW LONDON, CN</td>
<td>4 4 I F M 59748.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>54 SUBASE PEARL HARBOR, HI</td>
<td>4 4 I F M 59748.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>55 SWFPAC BREMERTON, WA</td>
<td>3 3 VI E M 88507.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>56 TRF BANGOR, WA</td>
<td>4 4 P E S 88507.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>57 SWFPAC KINGS BAY, GA</td>
<td>3 3 VI E M 88507.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>58 TRF KINGS BAY, GA</td>
<td>4 4 P E S 88507.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>COSTS.IN Program Listing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>--------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0001 000101</td>
<td>SITE POWER PREPARATIONS</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>0101 010201</td>
<td>NS-TXP, 2 MEG</td>
<td>439.2</td>
<td>96400.0</td>
<td>700.0</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>0102 010301</td>
<td>2 MEG MEMORY</td>
<td>89.06</td>
<td>22000.0</td>
<td>113.0</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0103 012401</td>
<td>FLTGT PT ARITH</td>
<td>2000.0</td>
<td>200.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>0104 013001</td>
<td>OSP WITH 6530</td>
<td>198.86</td>
<td>14875.0</td>
<td>113.0</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>0105 013001</td>
<td>CENTRONIX PRINTER</td>
<td>30.0</td>
<td>1795.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>0106 013201</td>
<td>6530 CRT</td>
<td>35.38</td>
<td>2575.0</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>0107 013202</td>
<td>PRINTER INTERFACE</td>
<td>2.44</td>
<td>455.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>0108 015001</td>
<td>PATCH PANEL CABINET</td>
<td>0.0</td>
<td>2500.0</td>
<td>400.0</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>1101 110101</td>
<td>DISC CONTROLLER</td>
<td>70.76</td>
<td>10500.0</td>
<td>200.0</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>1201 120201</td>
<td>DISC, WINCHESTER, 128MB</td>
<td>123.22</td>
<td>19500.0</td>
<td>325.0</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>1202 120301</td>
<td>DRAWER, WINCHESTER, 128MB</td>
<td>123.22</td>
<td>16500.0</td>
<td>325.0</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>1301 130201</td>
<td>DISC, MOVING HEAD, 240MB</td>
<td>253.76</td>
<td>26500.0</td>
<td>450.0</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>1401 140201</td>
<td>DISC, WINCHESTER, 540MB</td>
<td>395.28</td>
<td>39500.0</td>
<td>625.0</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>1501 150101</td>
<td>TAPE CONTROLLER</td>
<td>41.48</td>
<td>6100.0</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1601 160201</td>
<td>TAPE DRIVE FORMATTER</td>
<td>469.7</td>
<td>47500.0</td>
<td>475.0</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>24 240101</td>
<td>CARD RDR/PNCH</td>
<td>191.0</td>
<td>20442.0</td>
<td>75.0</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>26 260101</td>
<td>CARD READER</td>
<td>56.12</td>
<td>5600.0</td>
<td>175.0</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>2701 270101</td>
<td>LP/CR CONTROLLER</td>
<td>24.4</td>
<td>2800.0</td>
<td>188.0</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>2702 270201</td>
<td>600 LPM PRINTER</td>
<td>202.52</td>
<td>20000.0</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>2703 270301</td>
<td>1000 LPM PRINTER</td>
<td>202.52</td>
<td>14000.0</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>32 320101</td>
<td>INTRODUCTION BUS (INCL.W/010101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>3201 320101</td>
<td>FIBER OPTIC LINK CNTRL</td>
<td>610.00</td>
<td>35000.0</td>
<td>450.0</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>3202 320201</td>
<td>TANDEM/P-E HC ADAP</td>
<td>215.0</td>
<td>38940.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>3203 320301</td>
<td>HC ADAPTER 2ND TRUNK UTHER</td>
<td>38.0</td>
<td>4705.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>3204 320401</td>
<td>HC CABINET (3 ADAP)</td>
<td>14.0</td>
<td>3760.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>3205 320501</td>
<td>HC ADAPTER (UNIVAC 1100, 4110)</td>
<td>215.0</td>
<td>39.11</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>3206 320601</td>
<td>H1C PROC I/F (MINI-COMPILER)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>3301 330101</td>
<td>BURROUGHS HTC HC</td>
<td>215.0</td>
<td>78410.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>3302 330201</td>
<td>BURROUGHS DLP HC</td>
<td>215.0</td>
<td>38410.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>3303 330301</td>
<td>ECB/CAD ASCII RAM</td>
<td>16.0</td>
<td>3225.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>34 340101</td>
<td>HC PROC I/F (P.E./INTERDATA)</td>
<td>19.0</td>
<td>4560.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>36 360101</td>
<td>HC ADAPTER (IBM 360/370)</td>
<td>215.0</td>
<td>33525.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>37 370101</td>
<td>HC ADAPTER (UNIVAC 1100, 190)</td>
<td>215.0</td>
<td>38410.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>41 410101</td>
<td>HC ADAPTER (P-P DATA)</td>
<td>19.0</td>
<td>10810.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>42 420301</td>
<td>HC PROC I/F (MINI-COMPILER)</td>
<td>19.0</td>
<td>4000.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>37</td>
<td>4501 450101</td>
<td>ASYNCH CNTR</td>
<td>19.06</td>
<td>3600.0</td>
<td>127.0</td>
<td></td>
</tr>
<tr>
<td>Line</td>
<td>Program</td>
<td>Description</td>
<td>Cost</td>
<td>Quantity</td>
<td>Total</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
<td>-------------</td>
<td>------</td>
<td>----------</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>4502</td>
<td>ASYNCH EXTENSION BOARD</td>
<td>26.84</td>
<td>1</td>
<td>26.84</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>4503</td>
<td>AUTOMATIC CALLING UNIT</td>
<td>8.19</td>
<td>1</td>
<td>8.19</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>4504</td>
<td>COMM SUBSYSTEM BASE</td>
<td>160.0</td>
<td>1</td>
<td>160.0</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>4505</td>
<td>BASE ADD-ON</td>
<td>124.0</td>
<td>1</td>
<td>124.0</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>4506</td>
<td>RS-232 LIU/CABLE</td>
<td>12.0</td>
<td>1</td>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>4507</td>
<td>6100 CABLE/30M</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>4508</td>
<td>6100 CABLE/45M</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>4509</td>
<td>6100 CABLE/60M</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>4601</td>
<td>BIT SYNCH CNTR</td>
<td>50.02</td>
<td>1</td>
<td>50.02</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>4602</td>
<td>BYTE SYNCH CNTR</td>
<td>35.38</td>
<td>1</td>
<td>35.38</td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>4701</td>
<td>COMM.PATCH PANEL/LINE MON</td>
<td>140.4</td>
<td>1</td>
<td>140.4</td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>4702</td>
<td>ARCLI</td>
<td>7.02</td>
<td>1</td>
<td>7.02</td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>5101</td>
<td>GUARDIAN OS</td>
<td>158.6</td>
<td>1</td>
<td>158.6</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>5102</td>
<td>BATCH SUBSYSTEM</td>
<td>61.0</td>
<td>1</td>
<td>61.0</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>5103</td>
<td>FDC SYS UTILITIES</td>
<td>125.0</td>
<td>1</td>
<td>125.0</td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>5201</td>
<td>ENCOMPASS</td>
<td>323.3</td>
<td>1</td>
<td>323.3</td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>5202</td>
<td>ENABLE (P/O 520101)</td>
<td>67.1</td>
<td>1</td>
<td>67.1</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>5203</td>
<td>ENFORM (P/O 520101)</td>
<td>85.4</td>
<td>1</td>
<td>85.4</td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>5204</td>
<td>PATHWAY (P/O 520101)</td>
<td>103.7</td>
<td>1</td>
<td>103.7</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>5205</td>
<td>TMP (P/O 520101)</td>
<td>122.0</td>
<td>1</td>
<td>122.0</td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>5206</td>
<td>DDL (P/O 520101)</td>
<td>36.6</td>
<td>1</td>
<td>36.6</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>5207</td>
<td>FDC TPS SAS</td>
<td>240.0</td>
<td>1</td>
<td>240.0</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>5308</td>
<td>ENSCRIBE (P/O 510101)</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>5309</td>
<td>SORT/MERGE (P/O 510101)</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>5310</td>
<td>FUP(FILE UTIL PRG,P/O510101)</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>5311</td>
<td>FUP(PERIP UTL PRG,P/O510101)</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>5312</td>
<td>BACKUP/RESTORE(P/O 510101)</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>78</td>
<td>5313</td>
<td>FILE SYSTEM SECURITY</td>
<td>600.0</td>
<td>1</td>
<td>600.0</td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>5314</td>
<td>SYSTEM CARD READER SUPPORT</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>5401</td>
<td>SPOOLER (P/O 510101)</td>
<td>24.4</td>
<td>1</td>
<td>24.4</td>
<td></td>
</tr>
<tr>
<td>81</td>
<td>5502</td>
<td>ENVOY (P/O 510101)</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>82</td>
<td>5503</td>
<td>CUP(COM UTL PRG,P/O 510101)</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>83</td>
<td>5504</td>
<td>EXPAND</td>
<td>122.0</td>
<td>1</td>
<td>122.0</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>5505</td>
<td>EXCHANGE RJE HASP</td>
<td>24.4</td>
<td>1</td>
<td>24.4</td>
<td></td>
</tr>
<tr>
<td>85</td>
<td>5506</td>
<td>AM3270 ACCESS METHOD</td>
<td>24.4</td>
<td>1</td>
<td>24.4</td>
<td></td>
</tr>
<tr>
<td>86</td>
<td>5507</td>
<td>X25 ACCESS METHOD</td>
<td>24.4</td>
<td>1</td>
<td>24.4</td>
<td></td>
</tr>
<tr>
<td>87</td>
<td>5508</td>
<td>HYPER LINK ACC MD(P/O 510101)</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>88</td>
<td>5509</td>
<td>LCN FUP SUPPORT</td>
<td>0.0</td>
<td>1</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>89</td>
<td>5510</td>
<td>DELETED FDC CRT SUPPORT</td>
<td>350.0</td>
<td>1</td>
<td>350.0</td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>5511</td>
<td>6100 ATP</td>
<td>27.0</td>
<td>1</td>
<td>27.0</td>
<td></td>
</tr>
<tr>
<td>91</td>
<td>5512</td>
<td>6100 BSC</td>
<td>27.0</td>
<td>1</td>
<td>27.0</td>
<td></td>
</tr>
<tr>
<td>92</td>
<td>5513</td>
<td>6100 ADDCP</td>
<td>27.0</td>
<td>1</td>
<td>27.0</td>
<td></td>
</tr>
<tr>
<td>93</td>
<td>5514</td>
<td>6100 TINET</td>
<td>27.0</td>
<td>1</td>
<td>27.0</td>
<td></td>
</tr>
<tr>
<td>94</td>
<td>5515</td>
<td>BURR POLL/SELECT</td>
<td>27.0</td>
<td>1</td>
<td>27.0</td>
<td></td>
</tr>
<tr>
<td>95</td>
<td>5516</td>
<td>SNAX AND SNAX/HLS</td>
<td>27.0</td>
<td>1</td>
<td>27.0</td>
<td></td>
</tr>
<tr>
<td>96</td>
<td>5517</td>
<td>TR 3271</td>
<td>54.0</td>
<td>1</td>
<td>54.0</td>
<td></td>
</tr>
<tr>
<td>97</td>
<td>5518</td>
<td>AM 6520</td>
<td>27.0</td>
<td>1</td>
<td>27.0</td>
<td></td>
</tr>
<tr>
<td>98</td>
<td>5519</td>
<td>FDC SNA INTERFACE PACKAGE</td>
<td>350.0</td>
<td>1</td>
<td>350.0</td>
<td></td>
</tr>
<tr>
<td>99</td>
<td>5520</td>
<td>FDC DLANET INTERFACE PCK</td>
<td>400.0</td>
<td>1</td>
<td>400.0</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>5521</td>
<td>BURROUGHS HTC NETEX</td>
<td>156.4</td>
<td>1</td>
<td>156.4</td>
<td></td>
</tr>
</tbody>
</table>
## APPENDIX B: MAINTENANCE MANUAL

### Page 3

**COSTS.IN Program Listing**

<table>
<thead>
<tr>
<th>Line</th>
<th>Description</th>
<th>Cost 1</th>
<th>Cost 2</th>
<th>Cost 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>5555526002 DELETED HTC PRESENTATION</td>
<td>450.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>102</td>
<td>5555500803 CIP, BURROUGHS HTC</td>
<td>450.0</td>
<td>2250.0</td>
<td>0.0</td>
</tr>
<tr>
<td>103</td>
<td>5555509001 BURROUGHS DLP NETEX</td>
<td>680.0</td>
<td>720.0</td>
<td>0.0</td>
</tr>
<tr>
<td>104</td>
<td>5555509002 DELETED DLP PRESENTATION</td>
<td>450.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>105</td>
<td>5555509003 CIP, BURROUGHS DLP</td>
<td>450.0</td>
<td>2250.0</td>
<td>0.0</td>
</tr>
<tr>
<td>106</td>
<td>5555510001 PE 3200 NETEX</td>
<td>680.0</td>
<td>720.0</td>
<td>0.0</td>
</tr>
<tr>
<td>107</td>
<td>5555510002 DELETED PE3200 PRESENTATION</td>
<td>450.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>108</td>
<td>5555510003 CIP, PERKIN-ELMER</td>
<td>450.0</td>
<td>2250.0</td>
<td>0.0</td>
</tr>
<tr>
<td>109</td>
<td>5555511001 IBM NETEX</td>
<td>800.0</td>
<td>850.0</td>
<td>0.0</td>
</tr>
<tr>
<td>110</td>
<td>5555511002 DELETED IBM PRESENTATION</td>
<td>450.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>111</td>
<td>5555512001 UNIVAC 1100</td>
<td>800.0</td>
<td>850.0</td>
<td>0.0</td>
</tr>
<tr>
<td>112</td>
<td>5555512002 DELETED IBM MVS</td>
<td>450.0</td>
<td>2250.0</td>
<td>0.0</td>
</tr>
<tr>
<td>113</td>
<td>5555512003 CIP, UNIVAC 1100</td>
<td>450.0</td>
<td>2250.0</td>
<td>0.0</td>
</tr>
<tr>
<td>114</td>
<td>5555513001 TANDEM NETEX</td>
<td>326.4</td>
<td>816.0</td>
<td>0.0</td>
</tr>
<tr>
<td>115</td>
<td>5555513002 DELETED TANDEM PRESENTATION</td>
<td>450.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>116</td>
<td>5555513003 CIP, TANDEM</td>
<td>450.0</td>
<td>2250.0</td>
<td>0.0</td>
</tr>
<tr>
<td>117</td>
<td>5555513004 CEM, TANDEM</td>
<td>475.0</td>
<td>2250.0</td>
<td>0.0</td>
</tr>
<tr>
<td>118</td>
<td>5555514001 DELETED DDN INTERFACE</td>
<td>24.4</td>
<td>500.0</td>
<td>0.0</td>
</tr>
<tr>
<td>119</td>
<td>5555514002 DELETED DDN SVC INTERFACE</td>
<td>350.0</td>
<td>1300.0</td>
<td>0.0</td>
</tr>
<tr>
<td>120</td>
<td>5555514003 DDN INTERFACE SUBSYSTEM</td>
<td>750.0</td>
<td>32000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>121</td>
<td>5555515000 NETWORK MGMT FACILITY GRP</td>
<td>324.0</td>
<td>13200.0</td>
<td>0.0</td>
</tr>
<tr>
<td>122</td>
<td>5555515001 NMF BASE FACILITY</td>
<td>180.0</td>
<td>6000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>123</td>
<td>5555515002 NMF PERFORMANCE MONITORING</td>
<td>75.0</td>
<td>3500.0</td>
<td>0.0</td>
</tr>
<tr>
<td>124</td>
<td>5555515003 NMF DIAGNOSTIC MONITORING</td>
<td>75.0</td>
<td>3500.0</td>
<td>0.0</td>
</tr>
<tr>
<td>125</td>
<td>5555515004 NMF ACCOUNTING APPLICATION</td>
<td>75.0</td>
<td>3500.0</td>
<td>0.0</td>
</tr>
<tr>
<td>126</td>
<td>6101 610101 EDIT (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>127</td>
<td>6102 610102 TGAL (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>128</td>
<td>6103 610201 FILE COMPARISON UTILITY</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>129</td>
<td>6201 621001 COBOL</td>
<td>85.4</td>
<td>500.0</td>
<td>500.0</td>
</tr>
<tr>
<td>130</td>
<td>6202 621002 TAL(P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>131</td>
<td>6203 622001 BLOCK STRUCTURED LANGUAGE</td>
<td>61.0</td>
<td>170.0</td>
<td>50.0</td>
</tr>
<tr>
<td>132</td>
<td>6204 624001 FORTRAN-ANSI 78</td>
<td>73.2</td>
<td>500.0</td>
<td>50.0</td>
</tr>
<tr>
<td>133</td>
<td>6205 626001 BINDER (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>134</td>
<td>6206 627001 ENFORM (P/O 510101)</td>
<td>85.4</td>
<td>2000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>135</td>
<td>6207 627002 DDL (P/O 510101)</td>
<td>36.6</td>
<td>500.0</td>
<td>0.0</td>
</tr>
<tr>
<td>136</td>
<td>6208 628001 BINDER (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>137</td>
<td>6209 629001 FUP (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>138</td>
<td>6210 629002 EDIT (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>139</td>
<td>6211 630101 BINDER (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>140</td>
<td>6300 630102 OSP (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>141</td>
<td>6301 630103 ENCORE (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>142</td>
<td>6302 630104 XREF (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>143</td>
<td>6303 630105 LOADFILE (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>144</td>
<td>6304 640101 XRAY (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>145</td>
<td>6305 640301 ENABLE (P/O 510101)</td>
<td>67.1</td>
<td>1500.0</td>
<td>0.0</td>
</tr>
<tr>
<td>146</td>
<td>6401 650101 RUNTIME MON SYST (P/O 510101)</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>147</td>
<td>6501 660101 TANDEM DIAG SYSSHD/051010</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>148</td>
<td>6601 660101 TANDEM DIAG SYSSHD/051010</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>149</td>
<td>6602 660201 T-TEXT</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Line</td>
<td>Program</td>
<td>Description</td>
<td>Cost</td>
<td>Hours</td>
</tr>
<tr>
<td>------</td>
<td>---------</td>
<td>-------------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>151</td>
<td>67</td>
<td>CONFIG MGT QRY &amp; RPT 1 T/CH 0.0</td>
<td>95000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>152</td>
<td>68</td>
<td>SFTWRE CTL QRY &amp; RPT 1 T/CH 0.0</td>
<td>9000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>153</td>
<td>7101</td>
<td>COMPUTER OPERATIONS MAN SET 0.0</td>
<td>427.0</td>
<td>0.0</td>
</tr>
<tr>
<td>154</td>
<td>7201</td>
<td>SYSTEMS PROGRAMMER MAN SET 0.0</td>
<td>607.0</td>
<td>0.0</td>
</tr>
<tr>
<td>155</td>
<td>7301</td>
<td>HARDWARE MAN SET 0.0</td>
<td>375.0</td>
<td>0.0</td>
</tr>
<tr>
<td>156</td>
<td>7401</td>
<td>PROGRAMMERS REF MAN SET 0.0</td>
<td>437.0</td>
<td>0.0</td>
</tr>
<tr>
<td>157</td>
<td>XXXX</td>
<td>TRAINING GROUP I 0.0</td>
<td>268637.0</td>
<td>0.0</td>
</tr>
<tr>
<td>158</td>
<td>XXXX</td>
<td>TRAINING GROUP II 0.0</td>
<td>164271.0</td>
<td>0.0</td>
</tr>
<tr>
<td>159</td>
<td>XXXX</td>
<td>TRAINING GROUP III 0.0</td>
<td>89655.0</td>
<td>0.0</td>
</tr>
<tr>
<td>160</td>
<td>XXXX</td>
<td>TRAINING GROUP IV 0.0</td>
<td>21909.0</td>
<td>0.0</td>
</tr>
<tr>
<td>161</td>
<td>XXXX</td>
<td>OPERATOR TRAINING 0.0</td>
<td>14109.0</td>
<td>0.0</td>
</tr>
<tr>
<td>162</td>
<td>XXXX</td>
<td>HARDWARE OVERVIEW 0.0</td>
<td>7000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>163</td>
<td>XXXX</td>
<td>SYSTEMS RESOURCE MGT 0.0</td>
<td>20000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>164</td>
<td>XXXX</td>
<td>SYSTEMS TUNING AND XRAY 0.0</td>
<td>15000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>165</td>
<td>XXXX</td>
<td>DATA COMMUNICATIONS 0.0</td>
<td>10000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>166</td>
<td>XXXX</td>
<td>TAL 0.0</td>
<td>15000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>167</td>
<td>XXXX</td>
<td>SPLICENET MIGRATION WORKSHOP 0.0</td>
<td>8000.0</td>
<td>0.0</td>
</tr>
<tr>
<td>168</td>
<td>81</td>
<td>PM ON-CALL 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>169</td>
<td>81</td>
<td>PRVT MAINT FOR PER/CALL SIT 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>170</td>
<td>82</td>
<td>ON-CALL MAINTENANCE 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>171</td>
<td>83</td>
<td>PER-CALL MAINTENANCE 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>172</td>
<td>84</td>
<td>EMERGENCY PER-CALL MAINT 160.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>173</td>
<td>85</td>
<td>NETWORK ADMN COMP (P/O 50502010) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>174</td>
<td>89</td>
<td>TPS SIMULATION (P/O 520101) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>175</td>
<td>90</td>
<td>TPS APPL. INT (P/O 520101) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>176</td>
<td>91</td>
<td>TPS NTKW INTFCOMP (P/O 5201010) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>177</td>
<td>92</td>
<td>DSTE TPS PROC CMP (P/O 5201010) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>178</td>
<td>93</td>
<td>INTGRTED DDL CMP (P/O 5201010) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>179</td>
<td>94</td>
<td>TPS RECOVERY CMP (P/O 5201010) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>180</td>
<td>95</td>
<td>ENVISION (P/O 510101) 0.0</td>
<td>9.0</td>
<td>0.0</td>
</tr>
<tr>
<td>181</td>
<td>96</td>
<td>CONTRACTOR FERS SUP (P/PERS6533) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>182</td>
<td>96</td>
<td>SPLICENET MIGRATION SUPPORT 0.0</td>
<td>800.0</td>
<td>0.9</td>
</tr>
<tr>
<td>183</td>
<td>97</td>
<td>CNFG MGT DATA &amp; RP(NTH COST 0.0</td>
<td>4500.0</td>
<td>0.0</td>
</tr>
<tr>
<td>184</td>
<td>98</td>
<td>CONTRACTOR TRAVEL COSTS 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>185</td>
<td>99</td>
<td>PRE-INST TEST FAC (SEE NOTE) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>186</td>
<td>99</td>
<td>REMOTE BATCH TPL (SEE NOTE) 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>187</td>
<td>99</td>
<td>INTERACTIV TERM ACC SEE NOTE 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>188</td>
<td>99</td>
<td>HAND ON TEST FAC SEE NOTE 0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>
CONFIGURATION MANAGEMENT SYSTEM

BACHMAN DIAGRAM

CONFIGURATION
DATA BASE
CONFIG.DBF

EQUIPMENT
DATA BASE
EQUIP.DBF

DESCRIPTION
DATA BASE
DESCRIPT.DBF

SERIAL NUMBER
DATA BASE
SERIALNO.DBF

MANUAL
DATA BASE
MANUAL.DBF
### dBASE III DATA BASE STRUCTURE DESCRIPTIONS

**Structure for database:** CONFIG.DBF  
**Date of last update:** 12/21/85

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Name</th>
<th>Type</th>
<th>Width</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SITENO</td>
<td>Character</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SITENAME</td>
<td>Character</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SITECO</td>
<td>Character</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>SITENAMEFL</td>
<td>Character</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>SITEADD1</td>
<td>Character</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>SITEADD2</td>
<td>Character</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>SITECITY</td>
<td>Character</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>SITESTATE</td>
<td>Character</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>SITEZIP</td>
<td>Character</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>SITETYPE</td>
<td>Character</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>MAINTOPT</td>
<td>Character</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>MAINTRESP</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Total Record Width in Characters**  **253**

**Structure for database:** DESCRIPT.DBF  
**Date of last update:** 12/08/85

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Name</th>
<th>Type</th>
<th>Width</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FEATURENO</td>
<td>Character</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CLIN</td>
<td>Character</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>DESCRIPT</td>
<td>Character</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>MODELNO</td>
<td>Character</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>FDCMODEL</td>
<td>Character</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>TYPECOMPON</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>BASEMAINT</td>
<td>Numeric</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>NOTES</td>
<td>Memo</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Total Record Width in Characters**  **83**
### dBASE III DATA BASE STRUCTURE DESCRIPTIONS (Continued)

#### Structure for database: EQUIP.DBF
**Date of last update:** 01/08/86

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Name</th>
<th>Type</th>
<th>Width</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EFFDATE</td>
<td>Character</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SITENO</td>
<td>Character</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>FEATURENO</td>
<td>Character</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>UNIT_PRICE</td>
<td>Numeric</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>MO_MAINT</td>
<td>Numeric</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>UNIT_INSTA</td>
<td>Numeric</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>QTY</td>
<td>Numeric</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Record Width in Characters:** 47

#### Structure for database: MANUAL.DBF
**Date of last update:** 01/11/86

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Name</th>
<th>Type</th>
<th>Width</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SITENO</td>
<td>Character</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>FEATURENO</td>
<td>Character</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>MANLDESC</td>
<td>Character</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

**Total Record Width in Characters:** 32

#### Structure for database: SERIALNO.DBF
**Date of last update:** 01/08/86

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Name</th>
<th>Type</th>
<th>Width</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EFFDATE</td>
<td>Character</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SITENO</td>
<td>Character</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>FEATURENO</td>
<td>Character</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>QTY</td>
<td>Numeric</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>TOTQTY</td>
<td>Numeric</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>SERIALNO</td>
<td>Character</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

**Total Record Width in Characters:** 28
dBASE III DATA BASE STRUCTURE DESCRIPTIONS (Continued)

Structure for database: TED.DBF  
Date of last update: 07/18/85

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Name</th>
<th>Type</th>
<th>Width</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FILLER1</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SITENO</td>
<td>Character</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>CLIN</td>
<td>Character</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>FILLER2</td>
<td>Character</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>FEATURENO</td>
<td>Character</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>FILLER3</td>
<td>Character</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>DESCRIPT</td>
<td>Character</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>FILLER4</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>QTY</td>
<td>Numeric</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>FILLER5</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>UNIT_PRICE</td>
<td>Numeric</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>FILLER6</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>TOT_PRICE</td>
<td>Numeric</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>FILLER7</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>MO_MAINT</td>
<td>Numeric</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>16</td>
<td>FILLER8</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>MAINT_FAC</td>
<td>Numeric</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td>FILLER9</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>MAINT_MOS</td>
<td>Numeric</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>FILLER10</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>TOT_MAINT</td>
<td>Numeric</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>22</td>
<td>FILLER11</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>UNIT_INSTA</td>
<td>Numeric</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>24</td>
<td>FILLER12</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>TOT_INSTAL</td>
<td>Numeric</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td>FILLER13</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>COMP_DT_CR</td>
<td>Numeric</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>28</td>
<td>FILLER14</td>
<td>Character</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>SYS_DT_CR</td>
<td>Numeric</td>
<td>11</td>
<td>2</td>
</tr>
</tbody>
</table>

** Total Record Width in Characters ** 156
### dBASE III Configuration Management System

#### INDICES COMPOSITION

<table>
<thead>
<tr>
<th>DATA BASE FILE NAME</th>
<th>INDEX NAME</th>
<th>INDEX KEY COMPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONFIG.DBF</td>
<td>CONFIG.NDX</td>
<td>SITENO</td>
</tr>
<tr>
<td>DESCRIP.DBF</td>
<td>DESCRIP.NDX</td>
<td>FEATURENO</td>
</tr>
<tr>
<td>EQUIP.DBF</td>
<td>EQUIPSIT.NDX</td>
<td>SITENO</td>
</tr>
<tr>
<td></td>
<td>EFECT.NDX</td>
<td>FEATURENO</td>
</tr>
<tr>
<td></td>
<td>EQUIPS.DNDX</td>
<td>SITENO + EFFDATE</td>
</tr>
<tr>
<td></td>
<td>EQUIPDAT.NDX</td>
<td>SITENO + FEATURENO</td>
</tr>
<tr>
<td></td>
<td>EQUIPPRJ.NDX</td>
<td>EFFDATE + SITENO + FEATURENO</td>
</tr>
<tr>
<td>MANUAL.DBF</td>
<td>MANULSIT.NDX</td>
<td>SITENO + FEATURENO</td>
</tr>
<tr>
<td>SERIALNO.DBF</td>
<td>SERNOSIT.NDX</td>
<td>SITENO</td>
</tr>
<tr>
<td></td>
<td>SERNODAT.NDX</td>
<td>SITENO + EFFDATE</td>
</tr>
<tr>
<td></td>
<td>SERNOSFA.NDX</td>
<td>SITENO + FEATURENO</td>
</tr>
<tr>
<td></td>
<td>SERNOPRJ.NDX</td>
<td>EFFDATE + SITENO + FEATURENO</td>
</tr>
</tbody>
</table>
### dBASE III Configuration Management System

#### PROGRAM INVOCATION SEQUENCES

<table>
<thead>
<tr>
<th>DATA LOAD</th>
<th>EQUIPMENT FILE MAINTENANCE</th>
<th>DESCRIPTION FILE MAINTENANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SELECTOR.PRG</td>
<td>SELECTOR.PRG</td>
<td>SELECTOR.PRG</td>
</tr>
<tr>
<td>MAINMENU.PRG</td>
<td>MAINMENU.PRG</td>
<td>MAINMENU.PRG</td>
</tr>
<tr>
<td>NEWDOCMD.PRG</td>
<td>EQUIPCMD.PRG</td>
<td>DESPMOD.PRG</td>
</tr>
<tr>
<td>NEWDOCVT.PRG</td>
<td>EQUIPUPD.PRG</td>
<td>DESPPUPD.PRG</td>
</tr>
<tr>
<td>NEWDOADD.PRG</td>
<td>EQUIPREV.PRG</td>
<td>DESPPREV.PRG</td>
</tr>
<tr>
<td>SERNOBLD.PRG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONFIGURATION FILE MAINTENANCE</th>
<th>MANUAL FILE MAINTENANCE</th>
<th>SERIAL NUMBER FILE MAINTENANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SELECTOR.PRG</td>
<td>SELECTOR.PRG</td>
<td>SELECTOR.PRG</td>
</tr>
<tr>
<td>MAINMENU.PRG</td>
<td>MAINMENU.PRG</td>
<td>MAINMENU.PRG</td>
</tr>
<tr>
<td>CONFMOD.PRG</td>
<td>MANULCMD.PRG</td>
<td>SERNOCMD.PRG</td>
</tr>
<tr>
<td>CONFPUPD.PRG</td>
<td>MANULADD.PRG</td>
<td>SERNOUPD.PRG</td>
</tr>
<tr>
<td>CONFREV.PRG</td>
<td>MANULUPD.PRG</td>
<td>SERNOREV.PRG</td>
</tr>
<tr>
<td></td>
<td>MANULDEL.PRG</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MANULREV.PRG</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROJECT LEVEL REPORTS</th>
<th>SITE LEVEL REPORTS</th>
<th>EFFECTIVE DATE LEVEL REPORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SELECTOR.PRG</td>
<td>SELECTOR.PRG</td>
<td>SELECTOR.PRG</td>
</tr>
<tr>
<td>MAINMENU.PRG</td>
<td>MAINMENU.PRG</td>
<td>MAINMENU.PRG</td>
</tr>
<tr>
<td>REPORCMD.PRG</td>
<td>REPORCMD.PRG</td>
<td>REPORCMD.PRG</td>
</tr>
<tr>
<td>PROJRPTS.PRG</td>
<td>SITERPTS.PRG</td>
<td>DATERPTS.PRG</td>
</tr>
<tr>
<td>EQPPJRPT.PRG</td>
<td>EQPSTRPT.PRG</td>
<td>EQPDTPRC.PRG</td>
</tr>
<tr>
<td>SNOPJRPT.PRG</td>
<td>MNLSTRPT.PRG</td>
<td>EQPDTNPC.PRG</td>
</tr>
<tr>
<td></td>
<td>SNOSTRPT.PRG</td>
<td>SNOBTRPT.PRG</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAINTENANCE DELIVERY ORDER</th>
<th>LABEL GENERATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SELECTOR.PRG</td>
<td>SELECTOR.PRG</td>
</tr>
<tr>
<td>MAINMENU.PRG</td>
<td>MAINMENU.PRG</td>
</tr>
<tr>
<td>MAINTDO.PRG</td>
<td>MKLABELS.PRG</td>
</tr>
</tbody>
</table>

170
Program SPLICE_CONFIGURER (Textin, Input, Output);

{ *************************************************** }
{ Title : SPLICE_Configurer }
{ Authors : LCDR Robert L. Beard, III, SC, USN }
{ LCDR Winston H. Buckley, SC, USN }
{ LCDR Edward J. Case, SC, USN }
{ Purpose : To be used by Naval Supply Systems Command, SUP 0473, }
{ personnel as the principal means to configure new Stock }
{ Point Logistic Integrated Communications Environment }
{ (SPLICE) sites. In later versions additions will be }
{ made to assist in preparing augmentations to existing }
{ sites, as well as prepare annual renewal delivery orders }
{ for existing sites }
{ }
{ Developed: 04 October 1985 }
{ Updated : 07 December 1985 }

{ *************************************************** }

{ General Comments: This program is being designed as an "expert" system. It will use a series of "rules of thumb" to develop and maintain SPLICE configurations at 62 sites throughout the world. The SPLICE configurations developed to date have been done by hand and have required extensive "hand message" by technical, financial, and contractor personnel to ensure their accuracy. This has proven to be both costly in terms of dollars and manpower. By prompting the user for key information, this "expert system" will develop technically accurate configurations, cost them out, and prepare the final delivery orders. }

{ The following constants, types and variable declarations are used by the Software Bottling Company of New York screen generation program "SCREEN SCULPTOR". }

Typ

SIR2 = STRING[2]; SIR80 = STRING[80]; SIR79 = STRING[79];
resSS = (staySS, prevSS, exitSS, nextSS);

Const CopyrightSS="(C)Copyright 1984, The Software Bottling Company of New York";

\ DO NOT REMOVE The Above Copyright Notice

This Program may not be used without the above Copyright Notice

Const

\ Blank, Up Arrow Key, Left Arrow Key, Page Up Key }
\ +SS='I'; ISS='K'; pSS='l';
\ Blank, Down Arrow Key, Right Arrow Key, Page Down Key }
\ blankSS=' '; dSS='P'; rSS='M'; pSS='u';

171
SPLICE.PAS Program Listing

51 | Function keys F1-F10 |
52 | f1SS='1'; f2SS='2'; f3SS='3'; f4SS='4'; f5SS='5'; f6SS='6'; f7SS='7'; f8SS='8'; f9SS='9'; f10SS='0'; |
53 | retSS := STR2=''; |
54 |
55 |
56 |
57 |
58 | answerSS := String [1]; |
59 | rangeSS := STR80; |
60 | DeepOnSS, last_fieldSS, retrieveSS := BOOLEAN; |
61 | actionSS, last_field_actionSS := realSS; |
62 | hiSS, loSS := REAL; |
63 | vtypeSS, screenSS, screen_fieldSS, varSS := INTEGER; |
64 |
65 |
66 | The following constants, type and variable declarations are used by the SPLICE configurer. |
67 |
68 |
69 | Type |
70 | Op__mode = (Hard, Soft, Document, Train, Maint, Other); |
71 |
72 | Title := String [19]; | [Defines major components categories] |
73 | Names := Array [1..12] of String [9]; |
74 | CostType = Record |
75 | featureno := String [6]; | [contract feature number] |
76 | clin := String [6]; | [contract line item number] |
77 | descrip := String [27]; | [contract item description] |
78 | mmaint := Real; | [monthly maintenance w/ escalation] |
79 | purchase := Real; | [purchase price w/ discounts] |
80 | instcost := Real; | [installation cost w/ escalation] |
81 | basemaint := Real; | [basic monthly maintenance cost] |
82 | End; | [Record CostType] |
83 |
84 |
85 | SiteType := Record |
86 | siteno := Integer; | [Site number] |
87 | sitename := String [17]; | [Site name] |
88 | documentation := Integer; | [Documentation class required] |
89 | training := Integer; | [Training class required] |
90 | maint_options := String [4]; | [Currently not used] |
91 | maint_response := String [11]; | [Currently not used] |
92 | sitype := String [1]; | [Type-RAPS site [9] or Stock Point [13]] |
93 | siteinst := Real; | [Site installation cost w/o escalation] |
94 | End; | [Record SiteType] |
95 |
96 |
97 | Const |
98 | File1 := 'Costs.DAT'; | [Name of cost data file] |
99 | File2 := 'Confign.DAT'; | [Name of site configuration file] |
100 | File3 := 'SPLICE.DAT'; | [Name of screen menu file] |
Month_Name : Names = ('January', 'February', 'March', 'April',
'May', 'June', 'July', 'August',
'September', 'October', 'November', 'December');

Var
Node : Op_Mode;  
SiteInfo : SiteType;  
Subtotals : Array [0..5] of Array [1..3] of Real;  
Totals : Array [0..5] of Array [1..2] of Real;

CostTable : Array [1..200] of CostType;
CardRdr, LIU, Processors, THYPERchannels : integer;
Maint_Months, MINTEX_Months, DDN_Months : integer;
A140, A150, A220, A500, AXXX, 1, Quantity : integer;
System_Downtime_Component, Downtime_Credit, Maint_Factor : Real;
Emerg_Maint_Rate, Extended_Price, Maint_Esc_Rate : Real;

Stock_Point : Char;  
Screenfile : File;  
Site_Preps : String[1];  
Day : String [2];  
Year : String [4];  
Line_Number : String [6];  
Month : String [9];  
PRN_File_Name : String [12];  
Diskfile : Text;  

{$V+,C-,R-}  
{$I SPLICE.PAS Include Procedures In This File by SCREEN SCULP3R.  
SCREEN SCULP3R(C)
** Turbo Pascal Version, Trade Mark Of Borland International}
videoSS: 'video_pointerSS;

PROCEDURE BEEP(BeepOn: BOOLEAN);
BEGIN
  if BeepOn then write(chr(7));
END;

PROCEDURE COLOR(foregr, backgr: BYTE);
BEGIN
  if backgr>7 then foregr:=foregr+16;
  TextColor(foregr);
  TextBackground(backgr);
END;

PROCEDURE WRITEC(vtext: STRING);
BEGIN
  write(vtext);
END;

PROCEDURE CLEAR_KBD;
BEGIN
  while keypressed do read(kbd,kchar);
END;

FUNCTION SET_MONITOR_TYPE: INTEGER;
VAR j : INTEGER;
BEGIN
  if j=2 then
  BEGIN
    v1:=$4A;
    v2:=$45;
    v4:=$49
  END;
END;

1511 videoSS: 'video_pointerSS;
1521 PROCEDURE BEEP(BeepOn: BOOLEAN);
1541 BEGIN
1551 if BeepOn then write(chr(7));
1561 END;
1571
1591 PROCEDURE COLOR(foregr, backgr: BYTE);
1601 { Select current color by setting foreground and background }
1611 Any values between 0 and 15 are acceptable. See Tech Ref Manual
1621 }
1631 BEGIN
1641 if backgr>7 then foregr:=foregr+16;
1651 TextColor(foregr);
1661 TextBackground(backgr);
1671 END; { COLOR }
1681
1701 PROCEDURE WRITEC(vtext: STRING);
1711 BEGIN
1721 write(vtext);
1731 END; { WRITEC }
1741
1761 PROCEDURE CLEAR_KBD;
1771 { Clear Type Ahead Characters From Keyboard }
1781 VAR kchar: CHAR;
1791 BEGIN
1801 while keypressed do read(kbd,kchar);
1811 END; { CLEAR_KBD }
1821
1841 FUNCTION SET_MONITOR_TYPE: INTEGER;
1851 { Determine The Type Of Monitor Being Used }
1861 VAR j: INTEGER;
1871 BEGIN
1881 PROCEDURE CURSOR_SET;
1891 { Set Cursor Size }
1901 VAR v1,v2,v3: INTEGER;
1921 BEGIN
1941 if j=2 then
1951 BEGIN
1961 v1:=$4A;
1971 v2:=$45;
1981 v4:=$49
1991 END;
2001 END;
2011

2011  \( v2 := \$3b5 \);
2021  \( v3 := \$3b9 \)
2031  end;
2041  if (j = 2) or (j = 3) then
2051  begin
2061  \( \text{port}[v1] := \$0A \); \( \text{port}[v2] := 0 \); \{ Set High Cursor Scan Line \}
2071  \( \text{port}[v1] := \$0b \); \( \text{port}[v2] := 7 \); \{ Set Low Cursor Scan Line \}
2081  \( \text{port}[v3] := 1 \); \{ Set Border Color to BLUE \}
2091  end;
2101  END;

2111  CURSOR_SET
2121  BEGIN
2131  \( j := \text{mem}[@40:@10] \); \{ Figure out the monitor type \}
2141  \( j := (j) \) and \( \$3030 \) DIV 16;
2151  CASE \( j \) OF
2161  0: begin writeln('111a Monitor Mode'); halt end;
2171  1: begin \{ Set 40 column color to 80 column color \}
2181  writeln('Use MODE command to set to 80. \{ MODE (W0) \}'); halt
2191  end;
2201  2: \( \text{videoSS} := \text{ptr}(@b800,0) \); \{ Graphics 80 \}
2211  3: \( \text{videoSS} := \text{ptr}(@b000,0) \); \{ Monochrome \}
2221  END;
2231  \( \text{voffSS} := \$1 \); \( \text{vonSS} := \$29 \); \( \text{vdispSS} := \$38 \); \{ Video Off, On, Location \}
2241  CURSOR_SET; \{ Set To A Large Cursor \}
2251  COLOR(14,1); \{ Set Default Color \}
2261  SET_MONITOR_TYPE:=j;
2271  END; \{ SET_MONITOR_TYPE \}
2281  END;

2291  CURSOR_SOP;
2301  \{ Set To A Large Cursor \}
2311  COOR(14,1);
2321  \{ Set Default Color \}
2331  SET_MONITOR_TYPE:=j;
2341  \{ Set To A Large Cursor \}
2351  \{ Turn Video Off \}
2361  BEGIN \( \text{port}[\text{vdispSS}] := \text{voffSS} \); END;
2371  \{ Turn Video On \}
2381  BEGIN \( \text{port}[\text{vdispSS}] := \text{vonSS} \); END;
2391  BEGIN
2401  if RESULT=0 then
2411  begin
2421  if RESULT=0 then
2431  exist:=TRUE;
2441  breakend Screenfile, Blade[11, B];
2451  end
2461  \{ Turn Video Off \}
2471  \{ Turn Video On \}
2481  \{ Turn Video Off \}
2491  \{ Turn Video On \}
2501  if not exist then

175
APPENDIX B: MAINTENANCE MANUAL

SPLICE.PAS—include file SPLICE1.PAS Program Listing

begin
  color (15, 4);
gotoxy (25, 11);
write ('"Part of SPLICE.SCR is missing.');
end;
retSS := '';
END; { DISPLAY_SCREEN }

(See SCREEN SCULPTOR Manual For A Description Of GETITEM)

PROCEDURE GETITEM;

COL, LIN, LEN : BYTE;
TYPE : CHAR;
VAR
  WITEM : STR80;
  PICT : STR80;
  ITEM_LOW, ITEM_HIGH : STR80;
  RET : STR2;
  REMHIVE : BOOLEAN;
  PICT_COLOR, BOX_COLOR : BYTE
);

TYPE
PICT_TYPE = set of CHAR;

CONST
confirm=FALSE; (If FALSE auto-skip to next field when field is full)
l='R'; r='M'; u='H'; d='P'; dl='S'; ins='R'; pu='l'; pi='U';

Define The Function Keys )
tl=';'; t2='<'; t3='>'; t4='>'; t5='?';
t6='^'; t7='A'; t8='B'; t9='C'; t10='D';
special_keys: PICT_TYPE = [l,r,u,d,ins,pu,pi];
pict_elements: PICT_TYPE = ['X','U','I','#','9','H'];
bk: BYTE=8; esc: BYTE=27; cr: BYTE=13;

VAR
hcol,pcol,icol,pict_dec,item_dec,temph1,temph2,pplen,item: BYTE;
ch: str2; range_check,clear25: BOOLEAN;
check,end_of_field,begin_of_field,sign_flag,
special_dec_flag,valid_char: BOOLEAN;
temp_item, item: STR80;
tchar: CHAR;

FUNCTION DATE_CHECK(datevar: STR80): BOOLEAN;

Checks For Date Validity Excluding the following:
Does not check leap years. If datevar is incorrect then DATE_CHECK := FALSE

CONST
month_days: array[1..12] of INT2 = (31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31);

VAR
mm,dd,yy: INT2;
error: INT2;

ch_date: BOOLEAN;
APPENDIX B: MAINTENANCE MANUAL  Page 40

SPLICE.PAS—include file SPLICE1.PAS Program Listing

301 I BEGIN
302 I if ord(datevar[0])>8 then
303 I DATE_CHECK:=FALSE
304 I else
305 I begin
306 I ch_date:=TRUE;
307 I mm:=copy(datevar,1,2);
308 I dd:=copy(datevar,4,2);
309 I yy:=copy(datevar,7,2);
310 I if (error<>0) or (mm<1) or (mm>12) then ch_date:=FALSE;
311 I if ch_date then
312 I begin
313 I DATE_CHECK:=ch_date;
314 I end;
315 I (391SF dilt //
316 I VAR
317 I ch_late: BOOLEAN;
318 I begin
319 I if ch_date and (ch_late) then ch_date:=FALSE;
320 I end;
321 I DATE_CHECK:=ch_date;
322 I end;
323 I end; // PROCEDURE DATE_CHECK
324 I
325 I FUNCTION CHECK_DATE(DATE, DATE LOW, DATE HIGH: STRING): BOOLEAN;
326 I (391SF dilt //
327 I I Check Validity If date and whether it falls between low and high !
328 I IF low range date is higher than high range date then we assume !
329 I we crossed centuries eq. 09/09/84 to 01/01/10 }
330 I (391SF dilt //
331 I (391SF dilt //
332 I I Also a null date is ignored )
333 I I CHCST null = ' / / ';
334 I VAR
335 I ch_date: BOOLEAN;
336 I BEGIN
337 I if date=null then ch_date:=DATE_CHECK(date) else ch_date:=TRUE;
338 I if ch_date and (date<>null) and (date<>null) and (date<>null) then
339 I begin
340 I if ch_date then ch_date:=DATE_CHECK(date low);
341 I if ch_date then ch_date:=DATE_CHECK(date high);
342 I if ch_date then
343 I BEGIN
344 I date:=copy(date,7,2) copy(date,1,6);
345 I date:=copy(date,7,2) copy(date,1,6);
346 I if date=high then ch_date:=FALSE;
347 I end
348 I if (date<low) or (date<low) then ch_date:=FALSE;
349 I end;
350 I end;
APPENDIX B: MAINTENANCE MANUAL  Page 41

Page 8

SPLICE.PAS--include file SPLICE1.PAS Program Listing

J51 I if ch_date then CHECK_DATE:=TRUE else begin CHECK_DATE:=FALSE; end;
J52 I END; [PROCEDURE CHECK_DATE]
J53 I
J54 I FUNCTION CHECK_RANGE(VAR item, item_low, item_high: STR80): BOOLEAN;
J55 I ( Check to see whether item is within and including low and high )
J56 I VAR itemr, lowr, highr: REAL;
J57 I errori, errorl, errorh: INTEGER;
J58 I BEGIN
J59 I CHECK_RANGE:=TRUE;
J60 I val(item_low,lowr,errorl);
J61 I val(item_high,highr,errorh);
J62 I val(item,itemr,errori);
J63 I if (errorl=0) and (errorh=0) and (errori=0) then
J64 I begin
J65 I if item<lowr then CHECK_RANGE:=FALSE
J66 I else if item>highr then CHECK_RANGE:=FALSE;
J67 I end else
J68 I CHECK_RANGE:=FALSE;
J69 I END; [PROCEDURE CHECK_RANGE ]
J70 I
J71 I PROCEDURE MESSAGE(mess_num: BYTE);
J72 I ( Displays a Message On Line 25 and sets global clear25 to TRUE )
J73 I VAR mess, temp_item: STR79; length, start_col: INTEGER;
J74 I BEGIN
J75 I color (14,1); gotoxy (1, 25); clreol;
J76 I case mess_num of
J77 I 1: mess:= 'Only 0 thru 9 Allowed '
J78 I 2: mess:= 'Only 0 thru 9 or a space Accepted '
J79 I 3: mess:= 'BAD Date OR Not Within '+item_low+ ' & '+item_high+'
J80 I 4: mess:= 'Number Not Within '+item_low+' & '+item_high+' Range '
J81 I 5: mess:= 'Only 0 thru 9, decimal point OR - sign Allowed '
J82 I 6: mess:= 'Only Y or N Allowed '
J83 I 7: mess:= 'Only M or F Allowed '
J84 I 8: mess:= 'No More Room For Digits. Use [Del] key to remove '
J85 I 9: mess:= 'No Space For Negative Numbers. Input Positions Must Be Large '
J86 I end; [case ]
J87 I case length:ord(mess[0]);
J88 I start_col:=(79-length) MOD 2;
J89 I clear25:=TRUE;
J90 I gotoxy(start_col,25);
J91 I COLOR(15, 4);
J92 I write(17, mess);
J93 I gotoxy(start_col,lin);
J94 I COLOR (14, 1);
J95 I CLEAR FED;
J96 I END; [MESSAGE PROCEDURE ]
J97 I
J98 I FUNCTION CHECK_VALID(VAR item: STR60): BOOLEAN;
J99 I 1: IF CHECK_RANK(TMP) ON RETURN THEN return TRUE; if (item[1] IN \"a\" TO \"z\")

178
APPENDIX B: MAINTENANCE MANUAL

SPLIC2E.PAS—include file SPLIC1.PAS

Program Listing

Page 9

4011 if GETCHAR=FALSE on return then kchar is alpha numeric chars

4021 ctype must be one of the following

4031 U=Uppercase, L=Lower Case, X=Any Char, 9=0..9,’’, #=0..9,~~...

4041 GETCHAR will filter out any control characters

4051 TYPE PICT_TYPE = set of CHAR;

4061 CONST esc = 27; cr = 13; bk = 8;

4071 l='K'; r='M'; u='F'; d='P'; dl='S'; ins='R'; pu='1'; pd='l';

4081 f6='I'; f7='A'; f8='B'; f9='C'; f10='D';

4091 special_keys: PICT_TYPE = {l,r,u,d,dl,ins,pu,pd};

4101 func_keys: PICT_TYPE = {f1,f2,f3,f4,f5,f6,f7,f8,f9,f10};

4111 var str: CHAR; special.correct: BOOLEAN;

4121 temps: STIR79;

4131 BEGIN

4141 kchar='';

4151 GETCHAR:=TRUE; correct:=FALSE;

4161 repeat [ until getchar = TRUE ]

4171 special:=TRUE;

4181 repeat until a valid picture character

4191 repeat until keypressed;

4201 read(kbd,kchar[1]);

4211 if keypressed and (kchar[1]=chr(esc)) then

4221 begin

4231 read(kbd,kchar[2]);

4241 kchar[1]:=chr(0);

4251 kchar[0]:=chr(2);

4261 end else

4271 kchar[0]:=chr(11);

4281 Clear Line 25

4291 4301 if clear25 then

4311 begin

4321 color (14, 1);

4331 gotoxy (1,25);

4341 clear;

4351 gotoxy(hcol,lin);

4361 clear25:=FALSE;

4371 color (FGR_COLOR, BGR_COLOR);

4381 end; Clear Line

4391 if (not (ord(kchar[1]) in [l,r,u,d,dl,ins,pu,pd])) and (ord(kchar[0])=1) then

4401 begin

4411 str:=kchar[1];

4421 if (str=' ') and (str=' ') then

4431 begin

4441 new_type_of

4451 '0': correct:=TRUE;

4461 end;

4471 if str in ['1','2'] then str:=chr(ord(str)+2);

4481 kchar[1]:=str; correct:=TRUE;

4491 else;

4501 end;

4511 str:=str in ['A','Z'] then str:=chr(ord(str)+32);

179
Program Listing

```
4511 kchar[1]:=str; correct:=TRUE;
4521 end;
4531 '(': if (str in ['0'..'9','.',',']) then correct:=TRUE else message(5);
4541 '9': if str in ['0'..'9',','] then correct:=TRUE else message(2);
4551 '8': if str in ['0'..'9',') then correct:=TRUE else message(1);
4561 end [ case ]
4571 end [ begin ]
4581 else
4591 begin [special character]
4601 GETCHAR:=FALSE;
4611 correct:=TRUE;
4621 str:=kchar[1];
4631 end;
4641 until correct;
4651 if ord(kchar[0])=2 then [ see if it is a special character ]
4661 begin
4671 special:=FALSE;
4681 GETCHAR:=TRUE;
4691 if (kchar[2] in special_keys) or (kchar[2] in func_keys) then
4701 begin
4711 GETCHAR:=FALSE;
4721 special:=TRUE;
4731 end else DEEP(BeepUnSS);
4741 end;
4751 until special;
4761 ret:=kchar;
4771 END; [ GETCHAR FUNCTION ]
4781 PROCEDURE DECH; [ Positions Cursor At the Next Non Edit Character ]
4801 VAR elen_end: BOOLEAN; tempbl: BYTE;
4811 BEGIN
4821 if hcol>(col+tcol-1) then
4831 begin
4841 tempbl:=pcol;
4851 elen_end:=FALSE;
4861 repeat
4871 tempbl:=tempbl-1;
4881 if (pict[tempbl] in pict_elements) or (tempbl<>tcol) then elen_end:=TRUE;
4891 untill elen_end;
4901 if tempbl<>1 then
4911 begin
4921 hcol:=hcol-(tcol-tempbl);
4931 pcol:=tempbl;
4941 end;
4951 end else
4961 begin_of li:=TRUE;
4971 END; [ DECH PROCEDURE ]
4981 PROCEDURE INCH; [ Positions Cursor At the Next Non Edit Character ]
5001 VAR elen_end: BOOLEAN; tempbl: BYTE;
```
APPENDIX B: MAINTENANCE MANUAL  Page 44

SPICEPAS-include file SPICE1.PAS Program Listing

5011 BEGIN
5021 if hcol>(col+len-1) then
5031 begin
5041 tempbl:=1;
5051 elem_end:=FALSE;
5061 repeat
5071 tempbl:=tempbl+1;
5081 if (pict[pool+tempbl-1] in pict_elements) or ((pool+tempbl)>(len)) then
5091 elem_end:=TRUE;
5101 until elem_end;
5111 if tempbl<(len) then
5121 begin
5131 hcol:=hcol+tempbl-1;
5141 pool:=pool+tempbl-1;
5151 end;
5161 end else
5171 end_of_field:=TRUE;
5181 END; [$INCH PROCEDURE$]
5191
5201 PROCEDURE STRIP_BLANKS(VAR temp_item: STRING);
5211 { Strip Blanks On Both Sides Of passed item } 
5221 VAR l,j: BYTE;
5231 BEGIN
5241 if temp_item=' ' then
5251 begin
5261 i:=ord(temp_item[0]);
5271 \Strip Leading Blanks \\
5281 i:=0;
5291 \while (temp_item[i+1]=' ') and (i<j) do i:=i+1;
5301 \Strip Trailing Blanks \\
5311 if i=0 and (i<j) then temp_item:=copy(temp_item,i+1,j-1);
5321 \else if (i<>j) and (temp_item[i]=' ') then temp_item:='';
5331 \Strip trailing blanks \\
5341 if i=0 then temp_item:=copy(temp_item,i+1,j-1);
5351 \end;
5361 END; [$STRIP_BLANKS PROCEDURE$]
5371
5381 BEGIN \ Main Procedure Of GETITEM \ 
5391 item:=temp; \ Store Actual Item In A Work Variable \ 
5401 clear25:=FALSE; \ 
5411 if itype='D' then
5421 begin
5431 pict:='88/88/88';
5441 len:=8;
5451 end;
5461 if itype='Y' then
5471 begin
5481 if not (item[i] in [ 'Y' , 'y'] ) then item:='Y';
5491 pict:='0';
5501 len:=1;
5511 end;
APPENDIX B: MAINTENANCE MANUAL

Page 12

SPLICE.PAS—include file SPLICE1.PAS
Program Listing

5511 if itype='M' then
5521 begin
5531 if not (item[1] in ['M','F']) then item:='M';
5541 pict:='U';
5551 len:=1;
5561 end;
5571 end_of_field:=FALSE;
5581 begin_of_field:=FALSE;
5591 if (pict='') and (itype='C') then pict:='X';
5601 plen:=ord(pict[0]);
5611 fchar:=pict[plen];
5621 item:=ord(item[0]);
5631 (* Fill Item with blanks *)
5641 if itype=>'N' then (* If item is numeric *)
5651 begin
5661 while ilen<len do
5671 begin
5681 item:=item-' ';
5691 ilen:=ilen+1;
5701 end;
5711 while plen<len do
5721 begin
5731 pict:=pict+fchar;
5741 plen:=plen+1;
5751 end;
5761 end else (* If item is numeric *)
5771 begin
5781 strip_blanks(item);
5791 if item='', then item:='0';
5801 ilen:=ord(item[0]);
5811 while ilen<len do
5821 begin
5831 item:=' ' + item;
5841 ilen:=ilen+1;
5851 end;
5861 while plen<len do
5871 begin
5881 pict:='#' + pict;
5891 plen:=plen+1;
5901 end;
5911 if ord(pict[0])>len then pict:=copy(pict,ord(pict[0])-len+1,len);
5921 if ord(item[1])>len then item:=copy(item,1,len);
5931 item:=ord(item[0]); plen:=ord(pict[0]);
5941 pict_dec:=pos('. ',pict);
5951 item_dec:=pos(' ',item);
5961 ( Align Decimal Positions If Necessary )
5971 if pict_dec>item_dec then
5981 begin ( alignment )
5991 else:
6001 (* If picture has no decimal point and item does)
APPENDIX B: MAINTENANCE MANUAL

Page 13

SPLICE.PAS-include file SPLICE1.PAS Program Listing

601 I if (pict_dec=0) and check then
602 I begin
603 I item:=copy(item,l,item_dec-1);
604 I fillchar(temp_item,ord(item[0])-ord(item[0]),' ');
605 I item:=temp_item+item;
606 I check:=FALSE;
607 I end;
608 I if item has no decimal point and pict does)
609 I if (item_dec=0) and check then
610 I begin
611 I strip blanks(item);
612 I tempb2:=plen-pict_dec; [ # of decimal points ];
613 I fillchar(temp_item,tempb2,item[ord(item[0])]);
614 I item:=item+'.'+temp_item; [ Add decimal trailing digits ]
615 I ilen:=ord(item[0]); [ Get length of item ]
616 I while ilen<plen do [ Add blanks left]
617 I begin
618 I item:=item;
619 I ilen:=ilen+1;
620 I end;
621 I if ilen>plen then [ If The Item > Picture ]
622 I begin
623 I item:=copy(item,I,pictdec-1);
624 I item:=item+'.'+tempitem;
625 I end;
626 I check:=FALSE;
627 I end;
628 I if item decimal is further right than pict dec)
629 I if (item_dec>pict_dec) and check then
630 I begin [ Move the item to the left dropping off numbers picts]
631 I plen:=ord(pict[0]);
632 I ilen:=ord(item[0]);
633 I item:=copy(item,item_dec-pict_dec+1,ilen-(item_dec-pict_dec));
634 I ilen:=ord(item[0]);
635 I tempb:=plen-ord(item[0]);
636 I fillchar(temp_item,tempb1,item[ilen]);
637 I item:=item+temp_item;
638 I end;
639 I while ilen<plen do [ Add blanks left]
640 I begin
641 I item:=item;
642 I ilen:=ilen+1;
643 I end;
644 I check:=FALSE;
645 I end;
646 I if pict decimal is further right than item's)
647 I if (pict_dec>item_dec) and check then
648 I begin
649 I tempb2:=plen-pict_dec;
650 I item:=copy(item,1,item_dec+tempb2);
APPENDIX B: MAINTENANCE MANUAL

SPLICE.PAS—include file SPLICE1.PAS Program Listing

651I  ilen:=ord(item[0]);
652I  while ilen<len do
653I     begin
654I         item:=' '+item;
655I         ilen=ilen+1;
656I     end;
657I  check:=FALSE;
658I end;
659I end [ alignment ];
660I end [ fillings ];
661I (* Copy edit characters to item *)
662I  for tempbl=1 to len do
663I      if not (pict[tempbl] in pict_elements) then item[tempbl]:=pict[tempbl];
664I (* Display The item on the screen *)
665I  gotoxy(col,lin);
666I  writec(item);
667I  (* Get Data From Screen If Retrieve is True *)
668I if retrieve then
669I begin [ Retrieve ]
670I (* Move cursor to first position by bypassing edit chars *)
671I  pcol:=1;
672I  while (not (pict[pcol] in pict_elements)) and (pcol=len) do pcol:=pcol+1;
673I (* Readjust column *)
674I  tcol:=pcol;
675I  (* Handle Non Numeric Type Of Item *)
676I  if (itype='N') and (pcol=len) then
677I begin [ Non Numeric Field ]
678I  pcol:=tcol;
679I  hcol:=col+pcol-1;
680I  gotoxy(hcol,lin); (* Go to location on screen *)
681I  end [ Retrieve ]
682I  repeat [ Until range_check = TRUE ]
683I  pcol:=tcol;
684I  hcol:=col+pcol-1;
685I  gotoxy(hcol,lin); (* Go to location on screen *)
686I  repeat
687I  end of field:=FALSE;
688I  begin of field:=FALSE;
689I  special:=FALSE;
690I  if getchar(pict[pcol],kchar) then
691I begin
692I  writec(kchar);
693I  item[pcol]:=kchar[1];
694I  inch;
695I  gotoxy(hcol,lin);
696I  end else
697I special:=TRUE;
698I  if special then
699I begin [ Special Key Pressed ]
700I  ret:=kchar;
701I  special:=FALSE;
702I  if kchar[1]=chr(bk) then { It is backspace }
begin

dech;

gotoxy(hcol,lin); (Left)
end else
if (ord(kchar[0])=2) and (kchar[2] in [l,r,d1,ins]) then
begin
  case kchar[2] of
  l: begin dech; gotoxy(hcol,lin); end; (Left)
  r: begin inch; gotoxy(hcol,lin); end; (Right)
  dl: begin (Delete)
    tempb2:=pcol+1; (Find where the next edit char starts)
    while (pict[tempb2] in pict_elements) and (tempb2<len) do
      { tempb1=start, tempb2=end}
      tempb2:=tempb2+1;
      tempb2:=tempb2-1;
      for tempb1:=pcol to tempb2-1 do (move chars left)
        begin [ & put blank at end]
          item[tempb1]:=item[tempb1+1];
        end;
    end
    item[tempb2]:=' '; (rewrite the item)
    gotoxy(col,lin);
    writec(item);
    gotoxy(hcol,lin); end;
  ins: begin (Insert)
    tempb2:=pcol+1;
    while (pict[tempb2] in pict_elements) and (tempb2<len) do
      tempb2:=tempb2+1;
      tempb2:=tempb2-1;
      for tempb1:=tempb2 downto pcol+1 do
        begin
          item[tempb1]:=item[tempb1-1];
        end;
    item[pcol]:=' '; (Case kchar )
    gotoxy(col,lin);
    writec(item);
    gotoxy(hcol,lin);
    end;
    end
  else (esc,cr,pgup,pgdn,up,dn)
    special:=TRUE;
  end; (If backspace )
if end_of_field or begin_of_field then BEEP(DeepOnSS);
until (end_of_field and (not confirm)) or begin_of_field or special;
tempb1:=len; (Strip Trailing Blanks )
if itype='C' then
while (item[tempb1]=' ') and (tempb1>0) do tempb1:=tempb1-1;
item[0]:=chr(tempb1);
range_check:=TRUE;
if itype='D' then
begin
range_check:=check_date(item, item_low, item_high);
if not range_check then message(3);
end;
if itype='Y' then
begin
if not (item[1] in ['Y','N']) then
begin
range_check:=FALSE;
message(6);
end;
if itype='M' then
begin
if not (item[l] in ['M','F']) then
begin
range_check:=FALSE;
message(7);
end;
until range_check;
end;
if (itype='N') then
begin
begin if non numeric type of item} else if (numeric
7721 begin
7731 tcol:=len;
7741 repeat [ Until range_check=TRUE ]
7751 len:=tc01;
7761 tempbl:=len;
7771 len:=pos('.', item);
7781 range_check:=FALSE;
7791 if len=0 then len:=tempbl
7801 else len:=len-1;
7811 hcol:=col+len-1;
7821 pcol:=len;
7831 gotoxy(hcol,lin);
7841 special:=FALSE;
7851 sign_flag:=FALSE;
7861 end_of_field:=FALSE;
7871 dec_flag:=FALSE;
7881 repeat
7891 valid_char:=FALSE;
7901 if getchar('#',kchar) then
7911 begin [ Not Special ]
7921 case kchar of
7931 '.' : [ Sign ] if not sign_flag then valid_char:=TRUE;
7941 '.' : [ Decimal point ]
7951 if (len+tempbl) and (not dec_flag) then
7961 begin
7971 hcol:=hcol+2; pcol:=len+2; gotoxy(hcol,lin);
7981 dec_flag:=TRUE; sign_flag:=TRUE;
7991 end;
8001 '0'..'9': valid_char:=TRUE;
end (Case kchar);

{ sign_flag = if FALSE we allow minus (-) sign }
{ dec_flag = if FALSE we allow decimal (.) point }
if (valid_char) and (not dec_flag) then { Integer Portion }
begin
if (item[1]='-') and (len<tempbl) and (sign_flag) and
   not ((ord(item[0])<1) and (item[1]='.')) then
   message(8) { Overflow Numeric Field }
else
   begin
      if (not sign_flag) then { Erase Old Entry, Start New One }
      begin
         if (len)=0 then
            begin
               message(9);
               sign_flag:=FALSE;
            end else
            begin
               item[len-1]:='-
               item[len]:='0';
            end;
      end else
      item[len]:='kchar';
   end
   gotoxy(col,lin);
   writec(item);
   gotoxy(hcol,lin);
   end else
   begin
      if (item[1]='-' then
      begin
         if (len-1)=0 then
            begin
               message(9);
               sign_flag:=FALSE;
            end else
            begin
               item[len-1]:='-
               item[len]:='0';
            end;
      end else
      item[len]:='kchar';
   end
   gotoxy(col,lin);
   writec(item);
   gotoxy(hcol,lin);
end else
begin
   if (item[1]='-' then
   begin
      if (len-1)=0 then
         begin
            message(9);
            sign_flag:=FALSE;
         end else
         begin
            item[len-1]:='-
            item[len]:='0';
         end;
   end
   item[len]:='kchar';
   gotoxy(col,lin);
   writec(item);
   gotoxy(hcol,lin);
end
I. APPENDIX B: MAINTENANCE MANUAL
Page 51

Page 18

SPLICE.PAS - include file SPLICE1.PAS Program Listing

8511 else { Decimal Portion }
8521 if valid_char and (sign_flag) then
8531 begin
8541 item[pcol]: = kchar[1];
8551 writec(item[pcol]);
8561 if not end_of_field then
8571 begin
8581 hcol:=hcol+1;
8591 pcol:=pcol+1
8601 end;
8611 if pcol>tempbl then
8621 begin
8631 hcol:=hcol-1;
8641 pcol:=pcol-1;
8651 end_of_field:=TRUE
8661 gotoxy(hcol,lin);
8671 end;
8681 end { getchar is FALSE } else { getchar is TRUE }
8701 special:=TRUE;
8711 { Special Keys, DEL }
8721 if special then
8731 begin
8741 ret:=kchar;
8751 special:=FALSE;
8761 if (ord(kchar[0])=2) then
8771 begin
8781 if decflag of
8791 then Are We In Integer Part?
8801 if pict[pcol-1]='.' then (Are We In Integer Part?)
8811 begin (YES, Initialize Variables)
8821 hcol:=col[len-1];
APPENDIX B: MAINTENANCE MANUAL

Page 19

SPLICE.PAS -include file SPLICE1.PAS Program Listing

9011 gotoxy(hcol,lin);
9021 dec_flag:=FALSE;
9031 end_of_field:=FALSE;
9041 end else
9051 begin
9061 if not end_of_field then
9071 begin
9081 hcol:=hcol-1;
9091 pcol:=pcol-1
9101 end;
9111 gotoxy(hcol,lin);
9121 item[pcol]:='0';
9131 writec(item[pcol]);
9141 gotoxy(hcol,lin);
9151 end_of_field:=FALSE;
9161 end;
9171 { T }
9181 end ( dec_flag CASE );
9191 u,d,l,r,pu,pd,f1l,f2,f3,f4,f5,f6,f7,f8,f9,f10: special:=TRUE;
9201 end; { DELETE KEY CASE }
9211 end ( Case ) else
9221 if (ord(kchar[1]) in [cr, esc]) then special:=TRUE;
9231 end | Special |
9241 if end_of_field and (not special) then BEEP(DeeoOnSS));
9251 until special or (end_of_field and (not confirm));
9261 { Get Old Length back and find point position }
9271 len:=tcol;
9281 pcol:=pos('.',pict);
9301 { If no decimal point and 1st position is minus or blank then set to 0 }
9311 if (item[len] in ['-',',']) and (pcol=0) then
9321 begin
9331 item[len]:='0';
9341 gotoxy(col,lin);
9351 writec(item);
9361 end;
9371 temp_item:=item;
9381 strip_blanks(temp_item);
9401 range_check:=check_range(item, item_low, item_high);
9421 if not range_check then
9431 begin
9441 message(4);
9451 item:=temp_item;
9461 end;
9471 until range_check;
9491 end; { Numeric }
APPENDIX B: MAINTENANCE MANUAL  Page 53

SPLICE.PAS - include file SPLICE1.PAS Program Listing

951 begin
952 if itype='N' then strip_blanks(item);
953 if itype='C' then
954 begin
955 tempbl:=len;  (* Strip Trailing Blanks *)
956 while (item[tempbl]=' ') and (tempbl>0) do tempbl:=tempbl-1;
957 item[0]:=chr(tempbl);
958 end;
959 end;
960 item:=item;  (* Return result Back To item *)
961 end; (* GETITEM PROCEDURE *)
962
963 /* This is a summary of the procedures in SPLICE1.PAS */
964 PROCEDURE BEEP(BeepOn: BOOLEAN);  (* Sound Beep if BeepOn=TRUE *)
965 PROCEDURE CLEAR_KBD;  (* Clear Keyboard Buffer *)
966 PROCEDURE COLOR(foregr,backgr:BYTE);  (* Set Color *)
967 PROCEDURE WRITEC(text: STR80);  /* Write Char Using Color */
968 FUNCTION SET_MONITOR_Type: INTEGER;  /* Determine Monitor Type */
969 { Display A Screen Sculptor Screen }  (* 2=Color, 3=Monochrome *)
970 PROCEDURE DISPLAY_SCREEN(screenname: STR80; Var file_existSS: BOOLEAN);
971 { Display And Get An Item From Screen. See Detailed Description In Manual }  (*
972 PROCEDURE GETITEM(COL,LIN,LEN4: BYTE; (* Column, Line, Length *)
973 ITYPE : CHAR;  (* Type: C, N, U, Y, M *)
974 Var WITEM : STR80;  (* Variable Name *)
975 PIC : STR80;  (* Picture X, U, L, 9, 8 # *)
976 ITEM_LOW,ITEM_HIGH : STR80;  (* Range - Numerics/Date Only *)
977 Var RET : STRZ;  (* Returned Code *)
978 RETRIEVE : BOOLEAN;  (* False=Disp Only, True=Get *)
979 FGR_COLOR, BGR_COLOR : BYTE  (* Colors Foreground, Background *)
980 ); EXTERN;
981
982
983 ***************...
984 GLOBAL PROCEDURES
985
986 ***************...
987 PROCEDURE ACCEPT_INPUTS;
988 (* Display a prompt on Line 25 of the CRT and ask the user to be sure that
989 to accept or reject the data values input thus far. A "Y" or "N" response
990 only is allowed. *)
991 begin (* Procedure ACCEPT_INPUTS *)
992 COLOR (14, 1);  (* Set foreground & background colors *)
993
SPLICE.PAS Program Listing

1001 GOTOXY (1, 25);  
   { Position cursor col 1, row 25 }
1002 CrlEol;           
   { Clear row 25 with blanks }
1003 WRITE (' Do you accept the input values thus far? Yes or No ');
1004 answeSS := 'N';
1005 GETITEM (70, 25, 1, 'Y', answerSS, 'U', ' ', retSS, True, 12, 1);
1006 GOTOXY (1, 25);  
   { Position cursor col 1, row 25 }
1007 setBackground (1); 
   { Set background color to BLUE }
1008 CrlEol;           
   { Clear row 25 with blanks }
1009 End;             
   { Procedure ACCEPT_INPUTS }
1010
1011

PROCEDURE ret_STATUS;
1012   { Check Status Of Variable retSS and return a code in 'actionSS' & set 'varSS'
1013   This procedure is called immediately following GETITEM }
1014
1015   { Input to this procedure:
1016   when retSS is length 1 the values are any of the ASCII chars
1017   when retSS is length 2 the values are uSS, Iss, psSS, pdSS, function keys
dSS, rSS
1018   Output:
1019   The following codes are returned in actionSS : nextSS, prevSS,
1020   exitSS, staySS }
1021   { See Const Section For Meanings }
1022
1023   Begin
1024     last_field_actionSS := exitSS;
1025     actionSS := nextSS;  
   { Initialize Action Code }
1026     IF retrieveSS THEN   
   { is retrieveSS TRUE? }
1027     Begin
1028       IF ord(retSS[0]) = 2 THEN   
   { Is retSS length 2? }
1029         Begin
1030           CASE retSS[2] of
1031             uSS, Iss : actionSS := prevSS;  
   { Up Key, Left Key }
1032             dSS, rSS : actionSS := nextSS;  
   { Down Key, Right Key }
1033             psSS : actionSS := staySS;  
   { Page Up }
1034             pdSS : actionSS := staySS;  
   { Page Down }
1035             fISS, f2SS, f3SS, f4SS, f5SS, f6SS, f7SS, f8SS, f9SS, f10SS : actionSS := staySS;
1036             End;   
   { Case retSS[2] }
1037         End;
1038     End;
1039     IF retSS[0] = retSS[1] THEN actionSS := staySS;  
   { Escape Key }
1040     End;
1041     IF any other key not in above list will keep actionSS = nextSS }
1042
1043
1044
1045
1046
1047
1048
1049
1050

191
APPENDIX B: MAINTENANCE MANUAL  

Page 55

SPLICE.PAS Program Listing

1051  CASE actionSS of
1052    staySS; Begin
1053    nextSS: Begin
1054    varSS := varSS + 1;
1055    IF varSS > screen_fieldSS THEN varSS := 1;
1056    IF last_fieldSS AND retrieveSS THEN
1057      actionSS := last_field_actionSS
1058    End;
1059    prevSS: Begin
1060    varSS := varSS - 1;
1061    IF varSS < 1 THEN varSS := screen_fieldSS
1062    End;
1063    exitSS: ;
1064  End; { CASE }
1065 End; { PROCEDURE RET_STATUS }
1066
1067 PROCEDURE GETREAL(COL, LIN, LEN : BYTE; { Column, Line, Length })
1068  TYPE :
1069  Var WITEM : REAL; { Numerical Variable Name }
1070  PICT :
1071  Item Low, Item High : REAL; { Range - Numerics/Date Only }
1072  Var RET : STR2; { Returned Code }
1073  RETRIEVE : BOOLEAN; { False=Disp only, True=Get }
1074  FOR_COLOR,BGR_COLOR : BYTE; { Colors Foregr, Backgr }
1075
1076 { This Procedure converts numeric to string before calling GETITEM }
1077    it then converts the result back to numeric }
1078
1079 Var
1080   numSS, numloSS, numhiSS: STR80;
1081   errorcodeSS, dec_posSS: INTEGER;
1082
1083 Begin
1084    { Get # of Decimal Positions }
1085    dec_posSS:=ord(pict[10])-ord('.');pict);
1086    { Convert low and high range to string }
1087    STR (witem:0:dec_posSS,numSS);
1088    STR (item low:0:dec_posSS,numloSS);
1089    STR (item high:0:dec_posSS,numhiSS);
1090    GETITEM (col,lin,len,itype,numSS,pict,numloSS,numhiSS,
1091      ret,retrieve,fgr_color,bgr_color);
1092    { Convert string to numeric item }
1093    VAL (numSS, witem, errorcodeSS);
1094
1095 End; { Procedure GETREAL }
1096
1097 PROCEDURE GETINT(COL, LIN, LEN : BYTE; { Column, Line, Length })
1098  TYPE :
1099  Var WITEM : INTEGER; { Numerical Variable Name }
1100
APPENDIX B: MAINTENANCE MANUAL

SPLICE.PAS Program Listing

1101 PICT : STR80; { Picture X, U, L, 9, 8 # }
1102 ITEM_LOW,ITEM_HIGH : INTEGER; { Range - Numerics/Date Only }
1103 Var RET : STR2; { Returned Code }
1104 RETRIEVE : BOOLEAN; { False=Disp Only, True=Get }
1105 FGR_COLOR,BGR_COLOR : BYTE; { Colors Foregr, Backgr }
1106 { This Procedure converts numeric to string before calling GETITEM }
1107 { It then converts the result back to numeric }
1108 Var
1109 numSS, numloSS, numhiSS : STR80;
1110 errorcodeSS : INTEGER;
1111 Begin
1112 { Convert item, low and high range to string }
1113 STR (item_low,numloSS);
1114 STR (item_high,numhiSS);
1115 GETITEM (col,lin,len,itype,numnSS,pict,numloSS,numhiSS,
1116 ret,retrieve,fgr_color,bgr_color);
1117 { Convert string to numeric item }
1118 VAL (numSS, witem, errorcodeSS);
1119 End; { Procedure GETINT }

1120 PROCEDURE LINE_SETUP;
1121 Var
1122 Temp1 : String [2];
1123 Temp2 : String [4];
1124 Begin { PROCEDURE LINE_SETUP }
1125 IF Siteinfo.siteno < 10 THEN
1126 STR (Siteinfo.siteno:1, Temp1)
1127 ELSE
1128 STR (Siteinfo.siteno:2, Temp1);
1129 Temp2 := Copy (Costtable [1].clin, 1, 4); { Line Number, (CLI) }
1130 IF Siteinfo.siteno < 10 THEN
1131 Line_Number := CONCAT ('0', Temp1, Temp2)
1132 ELSE
1133 Line_Number := CONCAT ('', Temp1, Temp2)
1134 [ Accumulate the three totals for each section ]
APPENDIX B: MAINTENANCE MANUAL

SPLICE.PAS Program Listing

```
1151 Subtotals [ORD (mode), 1] := Subtotals [ORD (mode), 1] + Extended_Price;
1152 IF Mode = Hard THEN
1153 Subtotals [ORD (mode), 2] := Subtotals [ORD (mode), 2]
1154 + (Quantity * Costtable[I].basemain
1155 * Maint_Factor * Maint_Months)
1156 ELSE
1157 IF Mode = Soft THEN
1158 Subtotals [ORD (mode), 2] := Subtotals [ORD (mode), 2]
1159 + (Costtable[I].basemain
1160 * Maint_Factor * Maint_Months)
1161 ELSE
1162 Subtotals [ORD (mode), 2] := Subtotals [ORD (mode), 2]
1163 + (Costtable[I].basemain
1164 * Maint_Factor * Quantity)
1165 Subtotals [ORD (mode), 3] := Subtotals [ORD (mode), 3]
1166 + (Costtable[I].instcost * Quantity);
1167 "***********************************************************************
1168 \ Accumulate the O\&M and OPN totals for each section. \n1169 "***********************************************************************
1170 IF ( Mode = Hard) OR (Mode = Soft) THEN \ Add to OPN Total \n1171 Totals [ORD (mode), 2] := Totals [ORD (mode), 2] + Extended_Price
1172 ELSE \ Add to O\&M Total \n1173 Totals [ORD (mode), 1] := Totals [ORD (mode), 1] + Extended_Price;
1174 End \ Procedure LINE_SETUP \n1175
1176 PROCEDURE HEADERS;
1177 // This procedure generates the headers which are written at the top of \n1178 // each section of the delivery order. \n1179 //***********************************************************************
1180 Begin \ Procedure HEADERS \n1181 WRITEN (Diskfile, "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "", "`,
```
PROCEDURE WRITE_A_LINE;

This procedure is called by two disk file print routines, PRINT_MAINT and PRINT_DOC_or_TRNG to write the data elements associated with each CLIN to the output disk file.

BEGIN (Procedure WRITE_A_LINE)
END; (Procedure WRITE_A_LINE)

PROCEDURE PRINT_DOC_or_TRNG;

BEGIN (Procedure PRINT_DOC_or_TRNG)
  Maint_Months := 0; (* No maintenance on training/documentation *)
  Maint_Factor := 0; (* No maintenance uplift on training/documentation *)
  Extended_Price := Quantity * Costtable[I].purch_price;
  WRITE_A_LINE;
END; (Procedure PRINT_DOC_or_TRNG)

PROCEDURE COMPUTE_SECTION_TOTALS (Section_Title : Title);

BEGIN (Procedure COMPUTE_SECTION_TOTALS)
  Var
    F : Integer;
  Begin
    ON_Total, O&M_Total, Maint_Total : Real;
  END; (Procedure COMPUTE_SECTION_TOTALS)
Begin (Procedure COMPUTE SECTION TOTALS )

Procedure COMPUTE SECTION TOTALS

** Add maintenance and installation costs for each section to O&MN **
** section totals. **

Totals [ORD (mode), 1] := Totals [ORD (mode), 1] + Subtotals [ORD (mode), 2]
+ Subtotals [ORD (mode), 3];

IF Section_Title = 'Other' THEN

End

IF processing the last section, check to see if "SITE POWER PREPARATIONS" are to be included, then print the O&MN and O&MN section totals and grand totals.

Begin

End

IF Site_Preps = 'Y' THEN  // is the response a "Y" or "N"?

Begin

WRITE (Diskfile);

WRITE (Diskfile,
""",
"" Subtotals [4, 1];
"" Subtotals [4, 2];
"" Subtotals [4, 3]);

WRITE (Diskfile,
"" Hardware:",
"" Subtotals [0, 2]);

WRITE (Diskfile,
"" Software:",
"" Subtotals [1, 2]);

WRITE (Diskfile,
"" Total:",
"" Maint_Totals);}

IF Site_Preps = 'Y' THEN  // is the response a "Y" or "N"?

Begin

WRITE (Diskfile);

WRITE (Diskfile,
"", Section_Title, ";");

HEADERS;

Set up conditions to process Site Preparation charges.

Quantity := 1;
I := 1;  // I=1 for SITE PREPS
Mode := Other;
Maint_Factor := 0;
Extended_Price := quantity * Subtotal[4,1];
WRITE (Diskfile);

End;

WRITE (Diskfile);

WRITE (Diskfile);
APPENDIX B: MAINTENANCE MANUAL

Page 27 SPLICE.PAS Program Listing

1301 WRITELN (Diskfile, '""", '""SUBTOTALS:"", '"" OWN"",
1302 WRITELN (Diskfile);
1303 WRITELN (Diskfile, '""", '""HARDWARE", Totals [0, 1],
1304 WRITELN (Diskfile, '""", '""SOFTWARE", Totals [1, 1],
1305 WRITELN (Diskfile, '""", '""DOCUMENTATION", Totals [2, 1],
1306 WRITELN (Diskfile, '""", '""TRAINING" Totals [3, 1],
1307 WRITELN (Diskfile, '""", '""MAINTENANCE",
1308 WRITELN (Diskfile, '""", '""OTHER", Totals [5, 1],
1309 WRITELN (Diskfile, '""", Totals [5, 2]);
1310 WRITELN (Diskfile);
1311 { Initialize OWN and OPN totals }
1312 OWN_TOTAL := 0;
1313 OPN_TOTAL := 0;
1314 { Compute the OWN and OPN grand totals. }
1315 FOR K := 0 to 5 DO
1316 BEGIN
1317 OWN_TOTAL := OWN_TOTAL + Totals [K, 1];
1318 OPN_TOTAL := OPN_TOTAL + Totals [K, 2];
1319 END;
1320 WRITELN (Diskfile, '""
1321 SECTION "",
1322 OWN_Total, '"", OWN_Total);
1323 WRITELN (Diskfile, '""
1324 ELSE
1325 BEGIN
1326 { Print the totals for the section just finished, then print
1327 the next section title and new headers. }
1328 WRITELN (Diskfile);
1329 WRITELN (Diskfile, '""
1330 Subtotals [OWN (mode), 1],
1331 Subtotals [OWN (mode), 2],
1332 Subtotals [OWN (mode), 3]);
1333 WRITELN (Diskfile);
1334 WRITELN (Diskfile, '"" , Section_Title, '"");
1335 END;
1336 END; { Procedure COMPUTE_SECTION TOTALS }
1337 ********************
1338 { Print the totals for the section just finished, then print
1339 the next section title and new headers. }
1340 WRITELN (Diskfile);
1341 WRITELN (Diskfile, '""
1342 HEADERS;
1343 END;
1344 END; { Procedure COMPUTE_SECTION TOTALS }
1345 ********************
1346 { Print the totals for the section just finished, then print
1347 the next section title and new headers. }
1348 WRITELN (Diskfile, '""
1349 END OF GLOBAL PROCEDURES
PROCEDURE INITIALIZE;

PROCEDURE INIT_TOTALS;

Var
   Row, Col : Integer;

{ Initialize the subtotals and totals for each section to zero. }
{*******************************************************************************}
Begin
   FOR Row := 0 to 5 DO
      FOR Col := 1 to 3 DO
         Subtotals [Row, Col] := 0;
         IF Col < 3 THEN Totals [Row, Col] := 0;
      End;

{ Initialize the following global components }
{*******************************************************************************}
1 := 1;   { Global index counter }
System_Downtime_Component := 0;
Mode := Hard;
DontPlaySS := False;   { Set to TRUE if sound is desired }
vttypeSS := SET_MONITOR_TYPE;   { 2 = Color, 3 = Monochrome }
TextBackground [1];   { Initialize background color to BLUE }
ClrScr;   { Clear the input screen }
ASSIGN (Screenfile, File3);   { User responsible for I/O error check }
RESET (Screenfile);   { System will check for I/O errors }
End;   { Procedure INIT_TOTALS }

PROCEDURE OPENING_SCREEN;
{*******************************************************************************}
Begin   { This procedure displays the opening screen to the user. }
   DISPLAY_SCREEN (Screenfile);   { Display Screen }
   DELAY (1500);
   End;   { Procedure OPENING_SCREEN }

198
PROCEDURE PICK_A_SITE;

(* This procedure has four main functions. First, it determines the site to *)
(* be configured. Then it obtains the effective date for the delivery order. *)
(* It THEN obtains the file name for the output file from this session. And *)
(* finally, it builds the SITE.INFO array which contains site specific data *)
(* from the CONFIG.SIT file. *)

Var
Datain : String [80];
Siteno, Element : Integer;
Err, Temp_Site : Integer;
Textin : Text;

PROCEDURE GET_SITE_NUMBER;

Begin [ Procedure GET_SITE_NUMBER ]
( Initialize Variables To Default Values )
Siteno := 1;

[ Present the user with a list of the SPLICE sites by name and number. ]

screen_fieldSS := '1';
varSS := 1;
retrieveSS := FALSE;
last_fieldSS := FALSE;
DISPLAY_SCREEN (Screenfile);  { Display Screen }

REPEAT [ until answerSS = 'Y' ]
( Display Items. Change retrieveSS to TRUE and INPUT item )
REPEAT [ until actionSS = exitSS ]
REPEAT
GETINT (69, 24, 2, 'N', Siteno, '#', 1, 58, retrieveSS, retrieveSS, 14, 11);
IF Siteno = 23 THEN
Begin
GotoXY (20, 25);
Color (15, 4);
WRITE ('G, Site INACTIVE and not available for selection ');
End;
UNTIL Siteno = 23;
IF varSS = screen_fieldSS THEN last_fieldSS := TRUE;
SET_STATUS;  { Check the code in "retrSS", set "varSS" and "retrieveSS" }
APPENDIX B: MAINTENANCE MANUAL

Page 30

SPLICE.PAS Program Listing

1451 IF last_fieldSS and (not retrieveSS) THEN
1452 Begin
1453   retrieveSS := TRUE;
1454   last_fieldSS := FALSE;
1455   actionSS := staySS;
1456   varSS := 1;
1457   End
1458 ELSE
1459   last_fieldSS := FALSE;
1460   UNTIL actionSS = exitSS;
1461   ACCEPT_INPUTS;
1462   UNTIL answerSS = 'y';
1463 End; // Procedure GET_SITE_NUMBER
1464
1465 Begin // Procedure PICK_A_SITE
1466 GET_SITE_NUMBER;
1467 ASSIGN (Textin, File2);
1468 RESET (Textin);
1469 // Initialize "Temp_Site" and "Stock_Point"
1470 Temp_Site := 0;
1471 Stock_Point := ' ';
1472 WHILE Not EOF (Textin) AND (Temp_Site < Siteno) DO
1473 *** Read the file "CONFIG_SIT" until the site number in the file is
1474 equal to the site number input by the user.***
1475 Begin
1476   // READIN (Textin, Datain);
1477   Val (Copy (Datain, 1, 2), Temp_Site, Err);
1478   IF Siteno = Temp_Site THEN
1479 Begin
1480 // Builds the site information record
1481   SiteInfo.siteno := siteno;
1482   SiteInfo.sitename := Copy (Datain, 3, 71);
1483   Val (Copy (Datain, 31, 4), SiteInfo.documentation, Err);
1484   Val (Copy (Datain, 33, 4), SiteInfo.location, Err);
1485   SiteInfo.maint_options := Copy (Datain, 35, 4);
1486   SiteInfo.maint_response := Copy (Datain, 39, 4);
1487   SiteInfo.type := Copy (Datain, 42, 11);
1488   Val (Copy (Datain, 44, 6), SiteInfo.site_inst_cost, Err);
1489   End;
1490 End;
1491 Stock_Point := SiteInfo.site_type;
1492 'TRUE' (Textin);
1493 End; // Procedure PICK_A_SITE
1494
PROCEDURE BUILD_COST_TABLE;

This procedure's primary function is to build the COSTTABLE array. This contains the identification data for each component from the COSTS.IN file as well as cost/maintenance data, which is updated by the applicable uplift or discount factors. The array currently contains room for 200 entries.

Var
Textin : Text;
Errorcode, Count : Integer;
LCN_Purch_Esc_Rate, LCN_Maint_Esc_Rate, Document_Esc_Rate : Real;
Purch_Esc_Rate, Install_Esc_Rate, Train_Esc_Rate : Real;
SPLICE_sw_Maint_Esc_Rate, SPLICE_sw_Purch_Esc_Rate : Real;
FDC_SNAPurch_Esc_Rate, L04SW_Esc_Rate : Real;
Purch_EscRate, Install_EscRate, Train_EscRate : float;
SPLICE_sw_Maint_Esc_Rate, SPLICE_sw_Purch_Esc_Rate : float;
FDC_SNAPurch_Esc_Rate, L04SW_Esc_Rate : float;

PROCEDURE GET_RATES;

This procedure serves three main functions: it obtains the name of the current user, then obtains all the escalation/discount rates, and finally several numbers of Maint_Months, which are used for maintenance calculations.

Var
Month_Index : String [21];
PRN_Name, Effective_Date : String [81];
Index, Position : Integer;

PROCEDURE INITIALIZE_RATES;

(Initialize Variables To Default Values)

Base ( Procedure INITIALIZE_RATES )

Purch_Esc_Rate := 0.00;
LCN_Purch_Esc_Rate := 0.00;
SPLICE_sw_Maint_Esc_Rate := 0.00;
SPLICE_sw_Purch_Esc_Rate := 0.00;
Emerg_Maint_Rate := 0.0;
FDC_SNAPurch_Esc_Rate := 0.00;
LCN_Maint_Esc_Rate := 0.00;
LCN_SW_Esc_Rate := 0.000;
Install_Esc_Rate := 0.000;
Train_Esc_Rate := 0.00;
Document_Esc_Rate := 0.00;
Maint_Esc_Rate := 0.00;

PROCEIDURE GE
APPENDIX B: MAINTENANCE MANUAL

Page 33

SPLICE.PAS Program Listing

1601 | 10: GETREAL(71,17,4,'N',Train_Esc_Rate,
1602 |  '###',0.00,9.99,retSS,retrieveSS,15,3);
1603 | 11: GETREAL(70,18,5,'N',Document_Esc_Rate,
1604 |  '###',-1.00,9.99,retSS,retrieveSS,15,3);
1605 | 12: GETREAL(70,19,5,'N',Mmaint_Esc_Rate,
1606 |  '###',0.000,9.999,retSS,retrieveSS,15,3);
1607 | 13: GETITEM(63,21,8,'C',PRN_NAME,
1608 |  'XXXuuuu''',.,retSS,retrieveSS,15,3);
1609 | 14: GETITEM(37,23,2,'N',Maint_Months,
1610 |  '###',0.12,retSS,retrieveSS,15,3);
1611 | 15: GETITEM(67,23,8,'D',Effective_Date,
1612 |  '88/88/88', '01/01/84', '12/31/99',retSS,retrieveSS,15,3);
1613 | End; (CASE )
1614
1615 | IF varSS = screen_fieldSS THEN last_fieldSS := TRUE;
1616 | RET_STATUS; (Check code in "retSS". Set "varSS" & "actionsSS"
1617 | (Check to see whether to switch retrieveSS to true) IF last_fieldSS AND (not retrieveSS) THEN
1618 | Begin
1619 | retrieveSS := TRUE;
1620 | last_fieldSS := FALSE;
1621 | actionSS := staySS;
1622 | varSS := 1;
1623 | End
1624 ELSE
1625 | last_fieldSS := FALSE;
1626 | UNTIL actionSS = exitSS;
1627 ACCEPT_INPUTS;
1628 | (UNTIL answerSS = 'Y';
1629 | End; (Procedure GET_RATE_INPUTS)
1630
1631 | Begin (Procedure GET_RATES)
1632 | INITIALIZE_RATES;
1633 | GET_RATE_INPUTS;
1634 | (Generate the correct escalation & discount rates)
1635 | FDC_SNA_Purch_Esc_Rate := FDC_SNA_Purch_Esc_Rate + 1;
1636 | Esc_Rate := 1 + Esc_Rate;
1637 | LCM_Purch_Esc_Rate := 1 - LCM_Purch_Esc_Rate;
1638 | SPLICE_SW_Maint_Esc_Rate := SPLICE_SW_Maint_Esc_Rate + 1;
1639 | SPLICE_SW_Purch_Esc_Rate := SPLICE_SW_Purch_Esc_Rate + 1;
1640 | Install_Esc_Rate := 1 + Install_Esc_Rate;
1641 | Document_Esc_Rate := 1 + Document_Esc_Rate;
1642 | Maintain_Esc_Rate := Maintain_Esc_Rate + 1;
1643 | Train_Esc_Rate := 1 + Train_Esc_Rate;
1644 | LCM_Maint_Esc_Rate := 1 + LCM_Maint_Esc_Rate;
1645 | ESC_Rate := 1 + ESC_Rate;
1646 | Do not Maintain Rate := 1 + Do not Maintain Rate;
1647 | Generate the complete output file name, with input file "PRN", current...
APPENDIX B: MAINTENANCE MANUAL

Page 32

SPLICE.PAS Program Listing:

```
1551  PRN_Name := 'SPLICE';
1552  Maint_Months := 0;
1553  Effective_Date := '09/01/85';
1554  End;  (* Procedure INITIALIZE_RATES *)
1555  
1556  PROCEDURE GET_RATE_INPUTS;
1557  
1558  Begin  (* Procedure GET_RATE_INPUTS *)
1559  
1560  screen_fieldSS := 15;
1561  varSS := 1;
1562  retrieveSS := FALSE;
1563  last_fieldSS := FALSE;
1564  DISPLAY_SCREEN (Screenfile);  (* Display Screen *)
1565  IF Stock_Point <> 'S' THEN
1566     Begin
1567         COLOR (1, 1);
1568         WRITEXY (70, 11);
1569         WRITE (' ');
1570         WRITEXY (70, 15);
1571         WRITE (' ');
1572     End;
1573  
1574  END;
1575  
1576  REPEAT  (* until answerSS = 'Y' *)
1577  BEGIN
1578     REPEAT  (* until answerSS = 'Y' *)
1579  CASE varSS of
1580     1: GETREAL(71, 8, 4, 'P', PCP_SPLC_Purch_Esc_Rate,
1581         '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1582     2: GETREAL(71, 9, 4, 'S', PCP_SPLC_Purch_Esc_Rate,
1583         '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1584     3: IF Stock_point <> 'S' THEN
1585         GETREAL(71, 10, 4, 'P', PCP_SPLC_Purch_Esc_Rate,
1586             '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1587     4: GETREAL(71, 11, 4, 'S', PCP_SPLC_SW_Purch_Esc_Rate,
1588             '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1589     5: GETREAL(71, 12, 4, 'P', PCP_SPLC_SW_Purch_Esc_Rate,
1590             '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1591     6: GETREAL(71, 13, 1, 'P', PCP_SPLC_SWR_Purch_Esc_Rate,
1592             '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1593     7: IF Stock_point <> 'S' THEN
1594         GETREAL(71, 14, 1, 'P', PCP_SPLC_SWR_Purch_Esc_Rate,
1595             '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1596     8: IF Stock_point <> 'S' THEN
1597         GETREAL(71, 15, 1, 'P', PCP_SPLC_SWR_Esc_Rate,
1598             '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1599     9: GETREAL(71, 16, 5, 'P', PCP_SPLC_SWR_Esc_Rate,
1600             '#.##', 0.00, 9.99, retSS, retrieveSS, 15, 31);
1601     END;
```

203
APPENDIX B: MAINTENANCE MANUAL

Page 34

SPLICE.PAS Program Listing

1651 PRN_File_Name := CONCAT (PRN_Name, '.PRN');
1652 Day := Copy (Effective_Date, 4, 2);
1653 Month_Index := Copy (Effective_Date, 1, 2);
1654 Val (Month_Index, Index, Errorcode);
1655 Month := Month_Name [Index];
1656 { Strip trailing blanks off the name of the month }
1657 Position := 15;
1658 IF Position > 0 THEN Month := Copy (Month, 1, Position - 1);
1659 Year := Copy (Effective_Date, 7, 2);
1660 Year CONCAT ('19', Year);
1661 End;

1662 Begin { Procedure BUILD_COST_TABLE }
1663 ASSIGN (Textin, File);  
1664 RESET (Textin);
1665 Count := 1;
1666 GET_RATES; { ask user for all discount and escalation rates to be used }
1667 CLRSCR;
1668 Q/IUXY (15, 1);  
1669 WRITE ('Constructing cost escalation and discount table.');
1670 READLN (Textin, Datin);
1671 WHILE Not EOF ('IT-XTIN) DO
1672 Costtable [Count].featureno := COPY (Datain, 1, 4);
1673 Costtable [Count].featureno := COPY (Datain, 13, 27);
1674 Val (Copy (Datain, 40, 10), Costtable [Count].minaint, Errorcode);
1675 Costtable [Count].cost Maint = Costtable [Count].cost Maint;
1676 IF (Costtable [Count].featureno = '320100') AND
1677 Costtable [Count].featureno = '420400' THEN
1678 Costtable [Count].cost Maint := Costtable [Count].cost Maint;
1679 * LAN_Base_Maintenance
1680 ELSE IF (Costtable [Count].featureno = '550801') OR
1681 (Costtable [Count].featureno = '550901') OR
1682 (Costtable [Count].featureno = '551001') OR
1683 (Costtable [Count].featureno = '551101') OR
1684 (Costtable [Count].featureno = '551201') OR
1685 (Costtable [Count].featureno = '551301') THEN
1686 Costtable [Count].cost Maint := Costtable [Count].cost Maint;
1687 * LAN_S/W_Base_Maintenance
1688 ELSE IF (Costtable [Count].featureno = '550710') OR
1689 /* SPLICENet S/W_Base_Maintenance */
1690 ELSE IF (Costtable [Count].featureno = '550710') OR
Appendix B: Maintenance Manual

Page 35

SPLICE.PAS Program Listing:

1701  (Costtable [Count].featureno = '550711') OR
1702  (Costtable [Count].featureno = '550803') OR
1703  (Costtable [Count].featureno = '550903') OR
1704  (Costtable [Count].featureno = '551003') OR
1705  (Costtable [Count].featureno = '551103') OR
1706  (Costtable [Count].featureno = '551203') OR
1707  (Costtable [Count].featureno = '551303') OR
1708  (Costtable [Count].featureno = '551304') OR
1709  (Costtable [Count].featureno = '551403') OR
1710  (Costtable [Count].featureno = '551500') OR
1711  (Costtable [Count].featureno = '551501') OR
1712  (Costtable [Count].featureno = '551502') OR
1713  (Costtable [Count].featureno = '551503') OR
1714  (Costtable [Count].featureno = '551504') THEN
1715  Costtable [Count].maint := Costtable [Count].maint
1716  * SPLICENet_SW_Maint_Esc_Rate
1717
1718  (Normal Maintenance Escalation)
1719  ELSE Costtable [Count].maint := Costtable [Count].maint
1720   * Maint_Esc_Rate;
1721
1722  (6100 H/W Purchase Escalation)
1723  Val (Copy (Datain, 50, 11), Costtable [Count].purchprice, Errorcode);
1724  IF (Costtable [Count].featureno > '450300') AND
1725      (Costtable [Count].featureno < '450400') THEN
1726      Costtable [Count].purchprice := Costtable [Count].purchprice
1727
1728  (6100 S/W Purchase Escalation)
1729  ELSE IF (Costtable [Count].featureno > '550701') AND
1730      (Costtable [Count].featureno < '550711') THEN
1731      Costtable [Count].purchprice := Costtable [Count].purchprice
1732
1733  (SPLICENet S/W Base Maintenance)
1734  ELSE IF (Costtable [Count].featureno = '550710') OR
1735     (Costtable [Count].featureno = '550711') OR
1736     (Costtable [Count].featureno = '550803') OR
1737     (Costtable [Count].featureno = '550903') OR
1738     (Costtable [Count].featureno = '551003') OR
1739     (Costtable [Count].featureno = '551103') OR
1740     (Costtable [Count].featureno = '551203') OR
1741     (Costtable [Count].featureno = '551303') OR
1742     (Costtable [Count].featureno = '551304') OR
1743     (Costtable [Count].featureno = '551403') OR
1744     (Costtable [Count].featureno = '551501') OR
1745     (Costtable [Count].featureno = '551502') OR
1746     (Costtable [Count].featureno = '551503') OR
1747     (Costtable [Count].featureno = '551504') THEN
1748     Costtable [Count].maint := Costtable [Count].maint
1749     * SPLICENet_SW_Purch_Esc_Rate

205
(Training Escalation)
ELSE IF (Costtable [Count].featureno = '39XXXX') or
(Costtable [Count].featureno = 'XXXXXX') THEN
Costtable [Count].purchprice := Costtable [Count].purchprice
* Train_Esc_Rate

{ LN H/W Purchase Escalation }
ELSE IF (Costtable [Count].featureno = '320100') AND
(Costtable [Count].featureno < '420400') THEN
Costtable [Count].purchprice := Costtable [Count].purchprice
* LN_Purch_Esc_Rate

{ FDC SNA Purchase Escalation }
ELSE IF (Costtable [Count].featureno = '550710') THEN
Costtable [Count].purchprice := Costtable [Count].purchprice
* FDC_SNA_Purch_Esc_Rate

{ LN S/W Purchase Escalation }
ELSE IF (Costtable [Count].featureno = '550801') OR
(Costtable [Count].featureno = '550901') OR
(Costtable [Count].featureno = '551001') OR
(Costtable [Count].featureno = '551101') OR
(Costtable [Count].featureno = '551201') OR
(Costtable [Count].featureno = '551301') THEN
Costtable [Count].purchprice := Costtable [Count].purchprice
* LN_S/W_Esc_Rate

{ Documentation Purchase Escalation }
ELSE IF (Costtable [Count].featureno = '710000') AND
(Costtable [Count].featureno < '749999') THEN
Costtable [Count].purchprice := Costtable [Count].purchprice
* Document_Esc_Rate

{ Site Preparation Installation Escalation }
ELSE IF Costtable [Count].featureno = '000101' THEN
Costtable [Count].purchprice := SiteInfo.site.installed
* Install_Esc_Rate

{ Normal S/W Purchase Escalation }
ELSE Costtable [Count].purchprice := Costtable [Count].purchprice
* Purch_Esc_Rate;

{ Installation Cost Escalation }
Val (Copy (Output, 62, 10), Costtable [Count].installed, Errorcode);
IF Costtable [Count].featureno = '450000' AND
(Costtable [Count].featureno = '450400') THEN
Costtable [Count].installed := Costtable [Count].installed
ELSE IF Costtable [Count].featureno = '550201' AND
(Costtable [Count].featureno = '550701') THEN

SPLICE.PAS Program Listing

1801 Costtable[Count].instcost := Costtable[Count].instcost
1802 ELSE Costtable[Count].instcost := Costtable[Count].instcost
1803 * Instal_Esc_Rate;
1804
1805 READLN (Textin, Datain);
1806 Count := Count + 1;
1807 End;
1808 CLOSE (Textin);
1809 End; { Procedure BUILD_COST_TABLE }
1810
1811 PROCEDURE DELIVERY_ORDER_TITLE;
1812
1813 {******************************************************************************}
1814 { This procedure generates the title page data and first headers to be
1815 { by the 'Hardware' section. The data is written out to the diskfile
1816 { specified by the user when prompted for an output file Name.
1817 {******************************************************************************}
1818 Begin { Procedure DELIVERY_ORDER_TITLE }
1819 ASSIGN (Diskfile, PRN_Filename);
1820 REWRITE (Diskfile);
1821 WRITELN (Diskfile, '"', 'Naval Supply Systems Command SPLICE Delivery Order"');
1822 WRITELN (Diskfile);
1823 WRITELN (Diskfile, '"Site: ", Siteinfo.siteno:2, ", Siteinfo.sitename,
1824 "Siteinfo.sitename, "', "', "', "', ", "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', "', 

207
APPENDIX B: MAINTENANCE MANUAL

Page 71

SPLICE.PAS-include file SPLICE2.PAS Program Listing

18511 ( Input Variables Used For Documentation, Training & Maintenance )
18512 Computer_Ops, Hardware_Manual, Programmer_Ref : Integer;
18513 Sys_Programmer, Training_Group, Data_Communication : Integer;
18514 Hardware_Overview, Operator_Training, Sys_Resource : Integer;
18515 SPLICE_Workshop, Sys_Tuning_Xray, 'TAL, Per_Call_Months : Integer;
18516
18517
18518 PROCEDURE CONFIGURE_HARDWARE;
18519
18520 Var
18521 Cable_Distance : String [11];
18522 Add_Expansion, Add_HYPERchannel, Add_Patchpanel, Add_System : Integer;
18523 AsyncCtrl, AsyncExtbd, AsyncPchpnl, A510, Bitsync, Bytesync : Integer;
18524 Crts, D128MB, D240MB, D540MB, Expacab : Integer;
18525 HYPERcab, LPM1000, LPM600, PatchPanel, Printers, Pdrpunch : Integer;
18526 SysCab, TrkDrv, Trunks
18527
18528 PROCEDURE INITIALIZE_HARDWARE_INPUT;
18701
18702 Begin ( Procedure INITIALIZE_HARDWARE_INPUT )
18703 ( Initialize Variables To Default Values )
18704 Add_Expansion := 0;
18705 Add_HYPERchannel := 0;
18706 Add_Patchpanel := 0;
18707 Add_System := 0;
18708 AsyncCtrl := 0;
18709 AsyncExtbd := 0;
18710 AXXX := 0;
18711 A140 := 0;
18712 A150 := 0;
18713 A220 := 0;
18714 A400 := 0;
18715 A510 := 0;
18716 BitSync := 0;
18717 Bytesync := 0;
18718 Cable_Distance := 'N';
18719 CarBtnr := 0;
18720 Crts := 0;
18721 D128MB := 0;
18722 D240MB := 0;
18723 D540MB := 0;
18724 HYPERcab := 0;
18725 LPM1000 := 0;
18726 LPM600 := 0;
18727 Printers := 0;
18728 Printers := 0;
18729 Pdrpunch := 0;
18730 TapeDrv := 0;
18731
18732
18733
18734
18735
18736
18737
18738
18739
18740
18741
18742
18743
18744
18745
18746
18747
18748
18749
18750
18751
18752
18753
18754
18755
18756
18757
18758
18759
18760
18761
18762
18763
18764
18765
18766
18767
18768
18769
18770
18771
18772
18773
18774
18775
18776
18777
18778
18779
18780
18781
18782
18783
18784
18785
18786
18787
18788
18789
18790
18791
18792
18793
18794
18795
18796
18797
18798
18799
18800
18801
18802
18803
18804
18805
18806
18807
18808
18809
18810
18811
18812
18813
18814
18815
18816
18817
18818
18819
18820
18821
18822
18823
18824
18825
18826
18827
18828
18829
18830
18831
18832
18833
18834
18835
18836
18837
18838
18839
18840
18841
18842
18843
18844
18845
18846
18847
18848
18849
18850
18851
18852
18853
18854
18855
18856
18857
18858
18859
18860
18861
18862
18863
18864
18865
18866
18867
18868
18869
18870
18871
18872
18873
18874
18875
18876
18877
18878
18879
18880
18881
18882
18883
18884
18885
18886
18887
18888
18889
18890
18891
18892
18893
18894
18895
18896
18897
18898
18899
18900
208
APPENDIX B: MAINTENANCE MANUAL

SPLICE.PAS-include file SPLICE2.PAS Program Listing

19011蝈(1)heannels := 0;
19021Trunks := 0;
19031End;  (* Procedure INITIALIZE_HARDWARE_INPUTS *)
19041
19051PROCEDURE ODD_ERROR;
19061
19071BEGIN  (* Procedure ODD_ERROR *)
19081CJ150 (15, 4);
19091DRAWXY (10, 25);  (* WRITE ('i', 'Number of disks must be 0 or an EVEN number! ');
19111END;  (* Procedure ODD_ERROR *)
19121
19131
19141PROCEDURE CLEAR_MESSAGE;
19151
19161BEGIN  (* Procedure CLEAR_MESSAGE *)
19171TextBackground (11);
19181DRAWXY (1, 25);
19191Clear;
19201END;  (* Procedure CLEAR_MESSAGE *)
19211
19221
19231PROCEDURE GET_HARDWARE_INPUTS;
19241
19251BEGIN  (* Procedure GET_HARDWARE_INPUTS *)
19261screen fields := 25;
19271var fields := 1;
19281retreiveSS := False;
19291last fieldSS := False;
19301DISPLAY SCREEN (Screenfield); /* Display Screen */
19311REPEAF (until answerSS = 'Y')
19321/* Display Items. Change retrieveSS to True and INPUT items */
19331REPEAF (until answerSS = 'X')
19341CASE varSS of
193511: GETINT(40, 4, 1, 'P', 'Processors', '#', 0, 512, retrieveSS, retrieveSS, 1, 11);
193612: GETINT(40, 5, 1, 'N', 'Printers', '#', 0, 12, retrieveSS, retrieveSS, 1, 11);
193713: GETINT(40, 6, 1, 'A', 'Ctries', '#', 0, 999, retrieveSS, retrieveSS, 1, 11);
193814: REPEAF
19391GETINT(40, 7, 1, 'N', '12MB', '#', 0, 128, retrieveSS, retrieveSS, 1, 11);
19401IF Odd (D12MB) THEN ODD_ERROR
19411USE CLEAR_MESSAGE;
19421UNTIL not Odd (D12MB);
194315: REPEAF
19441GETINT(40, 8, 1, 'N', '240MB', '#', 0, 129, retrieveSS, retrieveSS, 1, 11);
19451IF Odd (D240MB) THEN ODD_ERROR
19461USE CLEAR_MESSAGE;
19471UNTIL not Odd (D240MB);
194816: REPEAF
19491GETINT(40, 9, 1, 'N', '960MB', '#', 0, 199, retrieveSS, retrieveSS, 1, 11);
APPENDIX B: MAINTENANCE MANUAL

SPLICE.PAS - include file SPLICE2.PAS Program Listing

IF ODD (DS40MB) THEN ODD_ERROR;
ELSE CLEAR MESSAGE;
UNTIL not ODD (DS40MB);
7: GETINT(40,10,3,'N',AsyncCtrl,'###',0,64,retSS,retrieveSS,14,1);
8: GETINT(40,11,3,'N',AsyncExtd, '###',0,2,retSS,retrieveSS,14,1);
9: GETINT(40,12,3,'N',BitSync,'###',0,128,retSS,retrieveSS,14,1);
10: GETINT(40,13,3,'N',ByteSync,'###',0,128,retSS,retrieveSS,14,1);
11: GETINT(40,14,3,'N',TapeDrv,'###',0,128,retSS,retrieveSS,14,1);
12: GETINT(40,15,3,'N',RdrPunch,'###',0,12,retSS,retrieveSS,14,1);
13: GETINT(40,16,3,'N',CardRdr,'###',0,12,retSS,retrieveSS,14,1);
14: GETINT(40,17,3,'N',LPM1000,'###',0,16,retSS,retrieveSS,14,1);
15: GETINT(40,18,3,'N',LPM600,'###',0,16,retSS,retrieveSS,14,1);
16: IF Stock_Point = 'S' THEN
GETINT(40,19,3,'N',Trunks,'###',0,2,retSS,retrieveSS,14,1);
17: GETINT(40,20,3,'N',LIU,'###',0,256,retSS,retrieveSS,14,1);
18: IF Stock_Point = 'S' THEN
GETINT(73,3,3,'N',A400,'###',0,256,retSS,retrieveSS,14,1);
19: IF Stock_Point = 'S' THEN
GETINT(73,4,3,'N',A150,'###',0,256,retSS,retrieveSS,14,1);
20: IF Stock_Point = 'S' THEN
GETINT(73,5,3,'N',A2XX,'###',0,256,retSS,retrieveSS,14,1);
21: IF Stock_Point = 'S' THEN
GETINT(73,6,3,'N',A220,'###',0,256,retSS,retrieveSS,14,1);
22: IF Stock_Point = 'S' THEN
GETINT(73,7,3,'N',A140,'###',0,256,retSS,retrieveSS,14,1);
23: IF Stock_Point = 'S' THEN
GETINT(73,8,3,'N',A510,'###',0,256,retSS,retrieveSS,14,1);
24: IF Stock_Point = 'S' THEN
GETINT(73,9,3,'N',HYPERchannels,
###',0,128,retSS,retrieveSS,14,1);
25: IF Stock_Point = 'S' THEN
REPEAT
GETITEM(75,20,1,'C',Cable_Distance,
'0','0',retSS,retrieveSS,14,1);
1: IF (Cable_Distance < 'A') OR (Cable_Distance = 'F') THEN
BEGIN
COLOR (15, 4);
OXY (20, 25);
WRITE ('G, Not with in range A to F');
END;
ELSE
ELSE CLEAR MESSAGE;
UNTIL (Cable_Distance = 'A') AND (Cable_Distance = 'F');
END;
CASE
IF varsS = screen_fieldSS THEN last_fieldSS := True;
RET STATUS; // Check code in "retSS", "set varsS" and "not retrieveSS"
BEGIN
IF last_fieldSS AND (not retrieveSS) THEN
BEGIN
APPENDIX B: MAINTENANCE MANUAL

SPLICE.PAS-include file SPLICE2.PAS Program Listing

20011 retrieveSS := True;
20021 last_fieldSS := False;
20031 actionSS := staySS;
20041 varSS := 1;
20051 End
20061 ELSE
20071 last_fieldSS := False;
20081 UNTIL actionSS = exitSS;
20091 ACCEPTINPUTS;
20101 UNTIL answerSS = 'Y';
20111 End;

{ Procedure GET_HARDWARE_INPUTS }
20121
20131
20141 PROCEDURE ADDITIONAL_CABINETS;
20151 Begin
20161 screenfieldSS := 3;
20171 varSS := 1;
20181 retrieveSS := False;
20191 last_fieldSS := False;
20201 DISPLAY_Screen(Screenfield);
20211 GETINT(40,4,3,'N',Processors,'###',0,256,retSS,False,14,11);
20221 GETINT(40,5,3,'N',Printers,'###',0,12,retSS,False,14,11);
20231 GETINT(40,6,3,'N',Crt,'###',0,999,retSS,False,14,11);
20241 GETINT(40,7,3,'N',D28MB,'###',0,128,retSS,False,14,11);
20251 GETINT(40,8,3,'N',D240MB,'###',0,128,retSS,False,14,11);
20261 GETINT(40,9,3,'N',D540MB,'##/##',0,128,retSS,False,14,11);
20271 GETINT(40,10,3,'N',AsyncCtrl,'###',0,64,retSS,False,14,11);
20281 GETINT(40,11,3,'N',AsyncExtbd,'###',0,2,retSS,False,14,11);
20291 GETINT(40,12,3,'N',BitSync,'###',0,128,retSS,False,14,11);
20301 GETINT(40,13,3,'N',ByteSync,'###',0,128,retSS,False,14,11);
20311 GETINT(40,14,3,'N',DataDrv,'###',0,128,retSS,False,14,11);
20321 GETINT(40,15,3,'N',RdrPunch,'###',0,128,retSS,False,14,11);
20331 GETINT(40,16,3,'N',CardRdr,'###',0,128,retSS,False,14,11);
20341 GETINT(40,17,3,'N',LPM1000,'###',0,16,retSS,False,14,11);
20351 GETINT(40,18,3,'N',LPM600,'###',0,16,retSS,False,14,11);
20361 IF Stock Point = 'S' THEN
20371 LGETINT(40,19,3,'N',Trunks,'###',0,2,retSS,False,14,11);
20381 LGETINT(40,20,1,'N',LIU,'###',0,256,retSS,False,14,11);
20391 IF Stock Point = 'S' THEN
20401 Begin
20411 GETINT(73,3,3,'N',A400,'###',0,256,retSS,False,14,11);
20421 GETINT(74,4,3,'N',A150,'###',0,256,retSS,False,14,11);
20431 GETINT(71,5,3,'N',AXXX,'###',0,256,retSS,False,14,11);
20441 GETINT(70,6,3,'N',A220,'###',0,256,retSS,False,14,11);
20451 GETINT(75,7,4,'N',A140,'###',0,256,retSS,False,14,11);
20461 GETINT(76,8,1,'N',A510,'###',0,256,retSS,False,14,11);
20471 GETINT(71,9,1,'N',THYPERchannels,'###',0,128,retSS,False,14,11);
20481 GETINT(75,20,1,'G',Cable_Distance,'/','',',',retSS,False,14,11);
2051   End;
2052   GETINT(68,13,2,'N',PatchPanel,'##',0,16,retSS,False,14,1);
2053   GETINT(68,14,2,'N',SysCab,'##',0,16,retSS,False,14,1);
2054   GETINT(68,15,2,'N',ExpanCab,'##',0,16,retSS,False,14,1);
2055
2056   REPEAT ( until answerSS = 'Y' )
2057   ( Display Items. Change retrieveSS to True and INPUT items)
2058   REPEAT ( until actionSS = exitSS )
2059   CASE varsSS of
2060       1: GETINT(75,13,2,'N',Add_PatchPanel,
2061          '##',0,8,retSS,retrieveSS,14,1);
2062       2: GETINT(75,14,2,'N',Add_System,
2063          '##',0,8,retSS,retrieveSS,14,1);
2064       3: GETINT(75,15,2,'N',Add_Expansion,
2065          '##',0,8,retSS,retrieveSS,14,1);
2066   End;  ( CASE )
2067
2068   IF varsSS = screen_fieldSS THEN last_fieldSS := True;
2069   IF last_fieldSS AND (not retrieveSS) THEN
2070       Begin
2071         retrieveSS := True;
2072         last_fieldSS := False;
2073         actionSS := staySS;
2074         varsSS := 1;
2075       End;
2076   END CASE
2077
2078   IF last_fieldSS THEN last_fieldSS := False;
2079   UNTIL actionSS = exitSS;
2080   ACCEPT_INPUTS;
2081   UNTIL answerSS = 'Y';
2082   END;  ( Procedure ADDITIONAL_CABINETS )
2083
2084
2085
2086
2087
2088
2089
2090
2091
2092
2093
2094
2095
2096
2097
2098
2099
2100
2101
2102
2103
2104
2105
2106
2107
2108
2109
2110
2111
2112
2113
2114
2115
2116
2117
2118
2119
2120
2121
2122
2123
2124
2125
2126
2127
2128
2129
2130
2131
2132
2133
2134
2135
2136
2137
2138
2139
2140
2141
2142
2143
2144
2145
2146
2147
2148
2149
2150
2151
2152
2153
2154
2155
2156
2157
2158
2159
2160
2161
2162
2163
2164
2165
2166
2167
2168
2169
2170
2171
2172
2173
2174
2175
2176
2177
2178
2179
2180
2181
2182
2183
2184
2185
2186
2187
2188
2189
2190
2191
2192
2193
2194
2195
2196
2197
2198
2199
2200
2201
2202
2203
2204
2205
2206
2207
2208
2209
2210
2211
2212
2213
2214
2215
2216
2217
2218
2219
2220
2221
2222
2223
2224
2225
2226
2227
2228
2229
2230
2231
2232
2233
2234
2235
2236
2237
2238
2239
2240
2241
2242
2243
2244
2245
2246
2247
2248
2249
2250
2251
2252
2253
2254
2255
2256
2257
2258
2259
2260
2261
2262
2263
2264
2265
2266
2267
2268
2269
2270
2271
2272
2273
2274
2275
2276
2277
2278
2279
2280
2281
2282
2283
2284
2285
2286
2287
2288
2289
2290
2291
2292
2293
2294
2295
2296
2297
2298
2299
2300
2301
2302
2303
2304
2305
2306
2307
2308
2309
2310
2311
2312
2313
2314
2315
2316
2317
2318
2319
2320
2321
2322
2323
2324
2325
2326
2327
2328
2329
2330
2331
2332
2333
2334
2335
2336
2337
2338
2339
2340
2341
2342
2343
2344
2345
2346
2347
2348
2349
2350
2351
2352
2353
2354
2355
2356
2357
2358
2359
2360
2361
2362
2363
2364
2365
2366
2367
2368
2369
2370
2371
2372
2373
2374
2375
2376
2377
2378
2379
2380
2381
2382
2383
2384
2385
2386
2387
2388
2389
2390
2391
2392
2393
2394
2395
2396
2397
2398
2399
2400
2401
2402
2403
2404
2405
2406
2407
2408
2409
2410
2411
2412
2413
2414
2415
2416
2417
2418
2419
2420
2421
2422
2423
2424
2425
2426
2427
2428
2429
2430
2431
2432
2433
2434
2435
2436
2437
2438
2439
2440
2441
2442
2443
2444
2445
2446
2447
2448
2449
2450
2451
2452
2453
2454
2455
2456
2457
2458
2459
2460
2461
2462
2463
2464
2465
2466
2467
2468
2469
2470
2471
2472
2473
2474
2475
2476
2477
2478
2479
2480
2481
2482
2483
2484
2485
2486
2487
2488
2489
2490
2491
2492
2493
2494
2495
2496
2497
2498
2499
2500
2501
2502
2503
2504
2505
2506
2507
2508
2509
2510
2511
2512
2513
2514
2515
2516
2517
2518
APPENDIX B: MAINTENANCE MANUAL

Page 76

Page 43 SPLICE.PAS-include file SPLICE2.PAS Program Listing:

21011 (Quantity * CostTable[I].basemaint
21021 * Maint_Factor);
21031 { Compute the Component Downtime Credit Factor per hour }
21041 {*******************************************************}
21061 Downtime_Credit := (((CostTable[I].purchprice + CostTable[I].instcost) / 48)
21071 + (CostTable[I].basemaint * Maint_factor) * 0.005;
21081 WRITELN (Diskfile, "", Line_Number:7, "", CostTable[I].featureno:9,
21091 "", CostTable[I].descript:28, "", Quantity:3,
21101 CostTable[I].purchprice:13:2, Extended_Price:12:2,
21111 CostTable[I].basemaint:9:2, Maint_Factor:8:3, Maint_Months:5,
21121 Quantity * CostTable[I].basemaint * Maint_Factor
21131 * Maint_Months:12:2, CostTable[I].instcost:8:2,
21141 CostTable[I].instcost * Quantity:9:2, Downtime_Credit:9:2,
21151 (Quantity * CostTable[I].basemaint * Maint_Factor):9:2);
21161 End; { Procedure PRINT_1W }
21171
21181
21191 PROCEDURE CONFIGURE_PROCESSING_SUBSYSTEM;
21201 Var
21211 OSP : Integer;
21221
21231 PROCEDURE COMPUTE_PROCESSORS;
21241 {*******************************************************}
21251 | This procedure outputs a series of screens prompting the user to pro-
21261 | vide the necessary inputs required to generate the processor related
21271 | data for the desired configuration. Each input is checked to determine
21281 | whether OR not the response is positive OR within the necessary limits.
21291 {*******************************************************}
21311
21321 Begin ( Procedure COMPUTE_PROCESSORS )
21331 Quantity := Processors;
21341 I := 1 + 1;
21351 IF Quantity > 0 THEN PRINT_1W;
21361 I := 1 + 1;
21371 IF Quantity > 0 THEN PRINT_1W;
21381 # extra 2MB memory modules to order
21391 IF Quantity > 0 THEN PRINT_1W;
21401 IF (SiteInfo.siteno = 2) OR (SiteInfo.siteno = 3) THEN
21411 Begin
21421 1 := 1 + 1;
21431 IF Quantity > 0 THEN PRINT_1W;
21441 1 := 1 + 1;
21451 END
21461 ELSE 1 := 1 + 1;
21471 IF Quantity > 0 THEN PRINT_1W;
21481 I := 1 + 1;
21491 IF Quantity > 0 THEN PRINT_1W;
21501 OSP := Processors;
APPENDIX B: MAINTENANCE MANUAL

Page 44 SPLICE.PAS - include file SPLICE2.PAS

Program Listing:

```pascal
21511 WHILE OSP MOD 16 > 0 DO
21521 OSP := OSP + 1;
21531 Quantity := OSP DIV 16;
21541 IF Quantity > 0 THEN PRINT_HW;
21551 End; { Procedure COMPUTE_PROCESSORS }
21561
21571
21581 PROCEDURE COMPUTE_CRTS_PIRS;
21591 {**********************************************************}
21601 | This routine computes the number of Centronics Printers, CRTs and OSP
21611 | interfaces required on the delivery order.
21621 {**********************************************************}
21631
21641 BEGIN { Procedure COMPUTE_CRTS_PIRS }
21651 Quantity := Printers;
21661 I := I + 1;       { I=6 Serial Printers }
21671 IF Quantity > 0 THEN PRINT_HW;
21681 Quantity := Crts;
21691 I := I + 1;       { I=7 CRTs }
21701 IF Quantity > 0 THEN PRINT_HW;
21711 Quantity := OSP DIV 16;
21721 I := I + 1;       { I=8 Printer Interfaces for OSPs }
21731 IF Quantity > 0 THEN PRINT_HW;
21741 End; { Procedure COMPUTE_CRTS_PIRS }
21751
21761
21771 PROCEDURE COMPUTE_CABINETS;
21781 {**********************************************************}
21791 | The following routine estimates the number of Patch Panel Cabinets
21801 | and permits the user to increase this for reserve/expansion.
21811 {**********************************************************}
21821
21831 Var
21841 Contigs, Slots, Temp : Integer;
21851
21861
21871 BEGIN { Procedure COMPUTE_CABINETS }
21881 Temp := Processors;
21891 {**********************************************************}
21901 | Sufficient system cabinets to house the number of Processors?
21911 {**********************************************************}
21921 WHILE (Temp MOD 4) > 0 DO
21931 Temp := Temp + 1;
21941 SysCab := Temp DIV 4;
21951 IF (Processors > 0) AND (SysCab = 1) THEN
21961 SysCab := 1;
21971 { The following routine estimates the number of PatchPanel Cabinets.
21981 IF SysCab = 1 THEN
21991 PatchPanel := 1
22001 ELSE IF SysCab = 0 THEN
```

Page 77
APPENDIX B: MAINTENANCE MANUAL

Page 45

SPLICE2.PAS Program Listing

Page 45

SPLICE.PAS-include file SPLICE2.PAS Program Listing

22011 PatchPanel := 0;
22021 Else IF SysCab > 1 THEN
22031 PatchPanel := SysCab - 1;
22041 { The following routine estimates the number of Expansion Cabinets:
22051 ExpansCab := 0;
22061 Config16 := Processors DIV 16;
22071 IF (Processors > (16 * Config16 + 4)) AND
22081 (Processors < (16 * (Config16 + 1) + 5)) THEN
22091 ExpansCab := Config16 + 1;
22101 ELSE ExpansCab := Config16;
22111 IF (Processors > 4) AND (Processors < 21) THEN
22121 ExpansCab := 1;
22131 ADDITIONAL_CABINETS;
22141 Slots := SysCab * 24;
22151
22161 { The following permits the user to increase the number of:
22171 Patch Panel Cabinets for reserve/expansion,
22181 Quantity := PatchPanel + Add_PatchPanel;
22191 i := 1;
22201 IF Quantity > 0 THEN PRINT LINE;
22211
22221 { The following permits the user to increase the number of:
22231 System Cabinets for reserve/expansion,
22241 Quantity := SysCab + Add_Sys;
22251 i := 1;
22261 IF Quantity > 0 THEN PRINT LINE;
22271 Quantity := 3 * (SysCab + Add_Sys); { 3 12 Power Modules System Cabinet
22281 i := 1;
22291 IF Quantity > 0 THEN PRINT LINE;
22301
22311 { The following permits the user to increase the number of:
22321 Expansion Cabinets for reserve/expansion,
22331 Quantity := ExpansCab + Add_Exp;
22341 i := 1;
22351 IF Quantity > 0 THEN PRINT LINE;
22361 End; { Procedure COMPUTE_CABINETS }
22371
22381
22391 Begin: { CONFIGURE_PROCESSING_SUBSYSTEM }:
22401 CONFIGURE_PROCESSORS;
22411 CONFIGURE_STORAGE;
22421 CONFIGURE_CABINETS;
22431 End; { CONFIGURE_PROCESSING_SUBSYSTEM }
22441
22451 Begin: { CONFIGURE_POWER_SUBSYSTEM }:
22461 CONFIGURE_POWER;
22471 CONFIGURE_CABINETS;
22481 End; { CONFIGURE_POWER_SUBSYSTEM }
22491
22501
22511 Var
22512 DiscCtrlr, DiscPatchPnl, THYPERPatchPnl : Integer;
22541
22551 {**********************************************************************
22552 The following procedures determine the number of discs, disc
22553 controllers, disc patch panels, and Patch Panel Cabinets to be ordered.
22554 The reason that PATCHPNL must be called, which includes TNL and ASYNC
22555 routines, from the disc procedure is to maintain the NAWPCC.
22556 Required delivery order sequence. Discs are in even quantities due to
22557 the "mirrored-disc" requirement in SPLICE.
22558 **************************************************************************
22561 PROCEDURE COMPUTE_PATCH_PANELS;
22561 Begin
22562 DiscCtrlr := (DISCNUM + 48090) DIV 2;
22563 IF (DiscCtrlr MOD 2) = 0 THEN DiscCtrlr := DiscCtrlr + 1;
22564 quantity := DiscCtrlr;
22565 WHILE (quantity MOD 4) > 0 DO
22566 quantity := quantity + 1;
22567 DiscPatchPnl := quantity DIV 4;  // 4 disc controllers per Disc Patch Panel
22568 quantity := DiscPatchPnl;
22569 I := 1 + 1;
22570 IF quantity > 0 THEN PRINT_IW;
22571 IF Stock_Point = 'S' THEN
22572 IF (THYPERchannels > 0) and (THYPERchannels < 5) THEN
22573 Begin
22574 Quantity := 1;
22575 PRINT_IW;
22576 End
22577 ELSE
22578 THYPERPatchPnl := THYPERchannels * 2;
22579 WHILE (THYPERPatchPnl MOD 4) > 0 DO
22580 THYPERPatchPnl := THYPERPatchPnl + 1;
22581 THYPERPatchPnl := THYPERPatchPnl DIV 4;
22582 quantity := THYPERPatchPnl DIV 4;
22583 IF quantity > 0 THEN PRINT_IW;
22584 End;
22585 quantity := AsyncCtrl;
22586 I := 1 + 1;
22587 IF quantity > 0 THEN PRINT_IW;
22588 I := 1 + 1;
22589 IF Ryosync > 0 THEN
22590 IF SITE SYNC lines require SITE Patch Panels THEN
22591 Quantity := Ryosync;
22592 PRINT_IW;
APPENDIX B: MAINTENANCE MANUAL  Page 80

SPLICE.PAS—include file SPLICE2.PAS Program Listing

23011 End;
23021 End; { Procedure COMPUTE_PATCH_PANELS }
23031
23041
23051 PROCEDURE COMPUTE_DISK_COMPONENTS;
23061
23071
23081 Begin { Procedure COMPUTE_DISK_COMPONENTS }
23091 Quantity := DiscCtrl;
23101 \( 1 := 1 + 1; \) \{ 1=17 Disc Controllers \}
23111 IF Quantity > 0 THEN PRINTIEW;
23121 Quantity := U128MB DIV 2; \{ Two drawers in each 128MB drive \}
23131 \( 1 := 1 + 1; \) \{ 1=18 1st Drawer of 128MB Discs \}
23141 IF Quantity > 0 THEN
23151 BEGIN
23161 PRINTIEW;
23171 \( 1 := 1 + 1; \) \{ 1=19 2nd Drawer of 128MB Discs \}
23181 PRINTIEW;
23191 End
23201 ELSE \( 1 := 1 + 1; \)
23211 Quantity := U240MB;
23221 \( 1 := 1 + 1; \) \{ 1=20 240MB Discs \}
23231 IF Quantity > 0 THEN PRINTIEW;
23241 Quantity := U540MB;
23251 \( 1 := 1 + 1; \) \{ 1-21 540MB Discs \}
23261 IF Quantity > 0 THEN PRINTIEW;
23271 End; { Procedure COMPUTE_DISK_COMPONENTS }
23281
23291
23301 BEGIN { Procedure COMPUTE_DISK }
23311 COMPUTE_PATCH_PANELS;
23321 COMPUTE_DISK_COMPONENTS;
23331 End; { Procedure COMPUTE_DISK }
23341
23351
23361 PROCEDURE COMPUTE_TAPE;
23371
23381 \{ This procedure determines the number of Tape Drives and Tape Controllers to be output on the delivery order \}
23401 \{ This procedure determines the number of Tape Drives and Tape Controllers to be output on the delivery order \}
23411
23421
23431 BEGIN { Procedure COMPUTE_TAPE }
23441 Quantity := TapeDrv;
23451 IF Quantity > 0 THEN
23461 BEGIN
23471 \( 1 := 1 + 1; \) \{ 1=22 Tape Controllers \}
23481 PRINTIEW;
23491 \( 1 := 1 + 1; \) \{ 1=23 Tape Drives \}
23501 PRINTIEW;
23511
APPENDIX B: MAINTENANCE MANUAL

Page 48

SPLICE.PAS-include file SPLICE2.PAS Program Listing

23511 \text{End}
23521 ELSE \text{I} := \text{I} + 2;
23531 \text{End}; \ (\text{Procedure COMPUTE_TAPE})
23541
23551
23561 \text{Begin}; \ (\text{Procedure CONFIGURE_STORAGE_SUBSYSTEM})
23571 \text{COMPUTE_DISK;}
23581 \text{COMPUTE_TAPE;}
23591 \text{End}; \ (\text{Procedure CONFIGURE_STORAGE_SUBSYSTEM})
23601
23611
23621 \text{PROCEDURE CONFIGURE_INPUT_OUTPUT_SUBSYSTEM;}
23631
23641
23651 \text{PROCEDURE COMPUTE_READER_PUNCHES;}
23661 \text{**************************************************************************}
23671 \text{This procedure determines the number of Reader/Punches and Card Readers)
23681 \text{to be output on the delivery order.}
23691 \text{**************************************************************************}
23701
23711 \text{Begin}; \ (\text{Procedure COMPUTE_READER_PUNCHES})
23721 \text{Quantity} := \text{RdrPunch};
23731 \text{I} := \text{I} + 1;
23741 IF \text{Quantity} > 9 \text{THEN PRINT_IW;}
23751 \text{Quantity} := \text{CardRdr};
23761 \text{I} := \text{I} + 1;
23771 IF \text{Quantity} > 0 \text{THEN PRINT_IW;}
23781 \text{End}; \ (\text{Procedure COMPUTE_READER_PUNCHES})
23791
23801
23811 \text{PROCEDURE COMPUTE_LINE_PRINTERS;}
23821
23831 \text{**************************************************************************}
23841 \text{This procedure determines the number of 1000 LPM and 600 LPM Printers)
23851 \text{to be output on the delivery order.}
23861 \text{**************************************************************************}
23871
23881 \text{Begin}; \ (\text{Procedure COMPUTE_LINE_PRINTERS})
23891 \text{Quantity} := \text{RdrPunch} \times \text{CardRdr} \times \text{LPM1000} \times \text{LPM600;}
23901 \text{I} := \text{I} + 1;
23911 IF \text{Quantity} > 0 \text{THEN PRINT_IW;}
23921 \text{Quantity} := \text{LPM1000;}
23931 \text{I} := \text{I} + 1;
23941 IF \text{Quantity} > 0 \text{THEN PRINT_IW;}
23951 \text{Quantity} := \text{LPM600;}
23961 \text{I} := \text{I} + 1;
23971 IF \text{Quantity} > 0 \text{THEN PRINT_IW;}
23981 \text{End}; \ (\text{Procedure COMPUTE_LINE_PRINTERS})
23991
24001
APPENDIX B: MAINTENANCE MANUAL

Page 49
SPLICE.PAS include file SPLICE2.PAS Program List

2401 I Begin ( Procedure CONFIGURE_INPUT_OUTPUT_SUBSYSTEM )
2402 I COMPUTE READER PUNCHES;
2403 I COMPUTE LINE PRINTERS;
2404 I ( Procedure CONFIGURE_INPUT_OUTPUT_SUBSYSTEM )
2405 I
2406 I
2407 I PROCEDURE CONFIGURE_COMUNICATIONS_SUBSYSTEM;
2408 I
2409 I

2410 I PROCEDURE COMPUTE_FOX;
2411 I (*******************************************************************************
2412 I ( This procedure determines the number of FOX fibre optic controllers and )
2413 I ( lines to be output on the delivery order. FOX permits SPLICE nodes of )
2414 I ( 16 OR less Processors (which are co-located within 1000 meters) to be )
2415 I ( directly interconnected. )
2416 I (*******************************************************************************
2417 I
2418 I Begin ( Procedure COMPUTE_FOX )
2419 I I := I + 1; [ I=29 Skips Interprocessor Bus ]
2420 I IF Processors > 16 THEN
2421 I Begin
2422 I I := I + 1; [ I=30 FOX CTRs for > 16 unit system ]
2423 I Quantity := Processors; [ Processors > 16? If so, order FOX ]
2424 I WHILE Quantity MOD 16 > 0 DO
2425 I Quantity := Quantity + I;
2426 I Quantity := Quantity DIV 16;
2427 I PRINT_HW;
2428 I I := I + 1; [ I=31 FOX cables ]
2429 I Quantity := Quantity - 1;
2430 I PRINT_HW;
2431 I End
2432 I ELSE I := I + 2;
2433 I End; ( Procedure COMPUTE_FOX )
2434 I
2435 I
2436 I PROCEDURE COMPUTE_HYPERCHANNELS;
2437 I (*******************************************************************************
2438 I ( This procedure is called by CONFIGURE_COMUNICATIONS_SUBSYSTEM and )
2439 I ( is invoked only for the configuration of Stock Point Sites. It )
2440 I ( uses the user inputs for HYPERchannel adapters and connections to )
2441 I ( write out the correct HYPERchannel component site quantities in )
2442 I ( the delivery order. Selected components are written to disk via )
2443 I ( the PRINT_HW routine. )
2444 I (*******************************************************************************
2445 I
2446 I
2447 I
2448 I PROCEDURE EXTRA_HYPERCABINETS;
2449 I
2450 I Begin ( Procedure EXTRA_HYPERCABINETS )

219
Add_HYPERChannel := 0;
COLOR (15, 1);
GETXY (51, 16);
WRITE ('HYPERChannel');

screen_fieldSS := 1;
varSS := 1;
retrievSS := False;
last_fieldSS := False;
retSS := '';

IF Stock_Point = 'S' THEN
  GETINT(68,16,2,'N',HYPERCab,'##',0,16,retSS,False,14,1);
REPEAT { Display Items. Change retrieveSS to True and INPUT items }
REPEAT { until answerSS = 'Y' } { Display Items. Change retrieveSS to True }
IF Stock_Point = 'S' THEN
  GETINT(75,16,2,'N',Add_HYPERChannel,'##',0,8,retSS,retrieveSS,14,1);

last_fieldSS := True;
RET_STATUS; { Check the code in "retSS". Set "varSS" and "actionSS" } 
{ Check to see whether to switch retrieveSS to true }
IF last_fieldSS AND (not retrieveSS) THEN
begin
  retrieveSS := True;
  last_fieldSS := False;
  actionSS := staySS;
  varSS := 1;
end
ELSE
last_fieldSS := False;
UNTIL actionSS = exitSS;
ACCEPT_INPUTS;
UNTIL answerSS = 'Y';
End; { Procedure EXTR_A_HYPERCHANNELS } 

Begin: Procedure COMPUTE_HYPERCHANNELS )
A400 := A400 + HYPERchannels;

Stores all minicomputer HYPERchannel Adapter requirements : 

\[ \text{Quantity} := A400; \]
\[ \text{Quantity} := 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
\[ \text{Quantity} := \text{Quantity} \times 1; \]
APPENDIX B: MAINTENANCE MANUAL  Page 84

Page 51

SPLICE.PAS-include file SPLICE2.PAS Program Listing

25011 End;
25021 HYPERCab := ((A400 DIV 2) + A150 + AX00 + A220 + A140 + A510) DIV 2;
25031 EXTRA HYPERCABINETS;
25041 Quantity := HYPERCab + Add HYPERChannel;
25051
25061 {**************************************************************************}
25071 { The above line determines the number of HYPERchannel cabinets to }
25081 { be estimated for the user. It assumes that all TANDEM and P-E }
25091 { HYPERchannels can reside in the same cabinet and that one cabinet }
25101 { for every two additional adapters will suffice. }
25111 {**************************************************************************}
25121
25131 IF Quantity = 0 THEN PRINT_HW;
25141 IF Quantity > 0 THEN PRINT_HW;
25151 Quantity := HYPERchannels;
25161 I := I + 1;
25171 IF Quantity > 0 THEN PRINT_HW;
25181 Quantity := Trunks;
25191 IF Trunks > 0 THEN
25201 Case Cable Distance of 'A': Begin
25211 'A': Begin
25221 I := I + 1;
25231 PRINT_HW;
25241 I := I + 5;
25251 End;
25261 
25271 'B': Begin
25281 I := I + 2;
25291 PRINT_HW;
25301 I := I + 4;
25311 End;
25321 'C': Begin
25331 I := I + 1;
25341 PRINT_HW;
25351 I := I + 3;
25361 End;
25371 'D': Begin
25381 I := I + 4;
25391 PRINT_HW;
25401 I := I + 2;
25411 End;
25421 'E': Begin
25431 I := I + 5;
25441 PRINT_HW;
25451 I := I + 3;
25461 End;
25471 'F': Begin
25481 I := I + 6;
25491 PRINT_HW;
25501 End;
APPENDIX B: MAINTENANCE MANUAL

Page 85

SPLICE.PAS--include file SPLICE2.PAS Program Listing

25511 End;
25521 End
25531 ELSE I := I + 6;
25541 Quantity := A150;
25551 I := I + 1;
25561 IF Quantity > 0 THEN PRINT_HW;
25571 Quantity := AXXX;
25581 I := I + 1;
25591 IF Quantity > 0 THEN PRINT_HW;
25601 Quantity := A150 + AXXX + A220;
25611 ( Burroughs & IBM hosts require ASCII to EBCDIC Conversion Board. )
25621 I := I + 1;
25631 IF Quantity > 0 THEN PRINT_HW;
25641 Quantity := A400 - HYPERchannels;
25651 I := I + 1;
25661 IF Quantity > 0 THEN PRINT_HW;
25671 Quantity := A220;
25681 I := I + 1;
25691 IF Quantity > 0 THEN PRINT_HW;
25701 Quantity := A140;
25711 I := I + 1;
25721 IF Quantity > 0 THEN PRINT_HW;
25731 Quantity := A510;
25741 I := I + 1;
25751 IF Quantity > 0 THEN PRINT_HW;
25761 I := I + 1;
25771 I := I + 1;
25781 I := I + 1;
25791 I := I + 1;
25801 I := I + 1;
25811 End; ( Procedure COMPUTE HYPERCHANNELS )
25821
25831 PROCEDURE COMPUTE TERMINAL COMMUNICATIONS COMPONENTS;
25841 Var
25851    I, K : Integer;
25861
25871 ************
25881 */ This procedure is used to handle all SPLICE terminal oriented
25891 */ communications requirements. PRINT_HW is called to write all
25901 */ selected components to the output file.
25911 ************
25921
25931 Begin ( Procedure COMPUTE TERMINAL COMMUNICATIONS COMPONENTS )
25941   AsyncExt[1] := AsyncTri * AsyncExt[1];
25951   IF AsyncExt[1] < 0 THEN
25961       V := 1;
25971       "Quantity := AsyncExt[1];"
25981       I := I + 1;
25991       IF Quantity > 0 THEN PRINT_HW;
26001       IF AsyncExt[1] < 0 THEN

222
APPENDIX B: MAINTENANCE MANUAL  Page 86

Page 53

SPLICE.PAS—include file SPLICE2.PAS Program Listing

26011 Begin
26021 Quantity := AsyncExtbd;
26031 I := I + 1;  // 1=51 ASYNC Extension Boards
26041 PRINT I@W;
26051 End
26061 Else I := I + 1;
26071 End
26081 Else I := I + 2;
26091 K := (LIU - 1) DIV 45;
26111 Quantity := LIU;
26121 IF LIU > 0 THEN
26131 Begin
26141 Quantity := K + 1;
26151 I := I + 1;  // 1=53 6100 Comm Base
26161 PRINT I@W;
26171 IF (LIU > 45*K) AND (LIU <= 45*K+15) THEN
26181 Begin
26191 Quantity := 2*K;
26201 CableOpt := 5*K+2;
26211 End;
26221 IF (LIU > 45*K+15) AND (LIU <= 45*K+30) THEN
26231 Begin
26241 Quantity := 2*K+1;
26251 CableOpt := 6*K+4;
26261 End;
26271 IF (LIU > 45*K+30) AND (LIU <= 45*K+45) THEN
26281 Begin
26291 Quantity := 2*(K+1);
26301 CableOpt := 6*K+6;
26311 End;
26321 Else I := I + 1;
26331 End
26341 PRINT I@W;
26351 Quantity := LIU;
26361 I := I + 1;  // 1=55 LIUs 1
26371 PRINT I@W;
26381 Quantity := CableOpt;
26391 I := I + 1;  // 1=56 6100 cables: 2 / base & 8 / add on
26401 IF Quantity = 0 THEN PRINT I@W;
26411 Else I := I + 1;
26421 End
26431 Else I := I + 1;
26441 IF (LIU > 0) THEN
26451 Quantity := Quantity;
26461 PRINT I@W;
26471 End;
26481 End
26491 Else I := I + 1;
26501 IF (LIU > 0) THEN

223
APPENDIX B: MAINTENANCE MANUAL

SPLICE.PAS—include file SPLICE2.PAS Program listing

26511 Begin
26521 Quantity := Bytesync;
26531 PRINT_RW;
26541 End;
26551 i := i + 2;  // Skips i=61-62; ARCLI items ordered
26561 End; ( Procedure: COMPUTE_TERMINAL_COMMUNICATIONS_COMPONENTS )
26571
26581
26591 Begin ( Procedure CONFIGURE_COMMUNICATIONS_SUBSYSTEM )
26601 COMPUTE_FOX;
26611 IF Stock_Point = 'S' THEN COMPUTE_HYPERCHANNELS
26621 ELSE i := i + 18;
26631 COMPUTE_TERMINAL_COMMUNICATIONS_COMPONENTS;
26641 End; ( Procedure CONFIGURE_COMMUNICATIONS_SUBSYSTEM )
26651
26661
26671 Begin ( Procedure CONFIGURE_HARDWARE )
26681 INITIALIZE_HARDWARE_INPUTS;
26691 GET_HARDWARE_INPUTS;
26701 CONFIGURE_PROCESSING_SUBSYSTEM;
26711 CONFIGURE_STORAGE_SUBSYSTEM;
26721 CONFIGURE_INPUT_OUTPUT_SUBSYSTEM;
26731 CONFIGURE_COMMUNICATIONS_SUBSYSTEM;
26741 COMPUTE_SECTION_TOTALS ('Software');
26751 Mode := Soft;
26761 End; ( Procedure CONFIGURE_HARDWARE )
26771
26781
26791 PROCEDURE CONFIGURE_SOFTWARE;
26801
26811
26821 Var
26831 | Variables Section For C:SOFTWARE |
26841 SW6100 : Char;
26851 ADCCP_6100, ATP_6100, BSC_6100, SNA_X_6100, T31SET_6100, AM_6529 : String[11];
26861 DDB, FDC DLANet, FDC_SNA, NMF_Performance :
26871 | String[11];
26881 NMF_Accounting, NMF_Base_Facility, NMF_Diagnostics, NMF_Group :
26891 | String[11];
26901 POLL_SELECT, FILE_SECURITY, LCN_FUP, T_TEXT, TR_3271 :
26911 | String[11];
26921 NETEX_MONTHS, SPLICE2_NET_MONTHS : Integer;
26931
26941
26951 | This procedure is used to determine the software requirements for |
26961 | the delivery order. Please see the rules in the Programmer Main |
26971 | tenance Manual to determine which packages are ordered PER |
26981 | PROCESSOR, PER SITE, and PER PROCESSOR USED. All software |
26991 | maintenance is PER SITE. Various discount/escalations apply to |
27001 | the software packages. See the BUILD FACT TABLE procedure for |
27011 | specific factors and how they are incorporated into the FACTUABLE |
27021 | array. |
PROCEDURE INITIALIZE_SOFTWARE_INPUTS;

BEGIN
  // Initialize Variables To Default Values
  AIDCCP := 'N';
  AM_6520 := 'Y';
  ATP_6100 := 'Y';
  BSC_6100 := 'N';
  DDN := 'N';
  FDC_DLANet := 'N';
  FDC_SNA := 'Y';
  FILE_SECURITY := 'N';
  LCN_FUP := 'N';
  NETEX_Months := 0;
  NMF_Accounting := 'N';
  NMF_Base_Facility := 'N';
  NMF_Diagnostics := 'N';
  NMF_Group := 'N';
  NMF_Performance := 'N';
  PULL_SELECT := 'Y';
  SNAX_6100 := 'Y';
  SPLICE_NetMonths := 0;
  T_TEXT := 'Y';
  TR_3271 := 'N';

END;

PROCEDURE GET_SOFTWARE_INPUTS;

BEGIN
  // Display Screen

  REPEAT (until answerSS = 'Y')
  BEGIN
    // Display Items, Change retrievCSS to True and INPUT items
    // Display Screen

    // Continue...

END;

27011 {******************************************************}
27021
27031
27041 PROCEDURE INITIALIZE_SOFTWARE_INPUTS;
27051
27061
27071 Begin ( Procedure INITIALIZE_SOFTWARE_INPUTS )
27081 ( Initialize Variables To Default Values )
27091 AIDCCP_6100 := 'N';
27101 AM_6520 := 'Y';
27111 ATP_6100 := 'Y';
27121 BSC_6100 := 'N';
27131 DDN := 'N';
27141 FDC_DLANet := 'N';
27151 FDC_SNA := 'Y';
27161 FILE_SECURITY := 'N';
27171 LCN_FUP := 'N';
27181 NETEX_Months := 0;
27191 NMF_Accounting := 'N';
27201 NMF_Base_Facility := 'N';
27211 NMF_Diagnostics := 'N';
27221 NMF_Group := 'N';
27231 NMF_Performance := 'N';
27241 PULL_SELECT := 'Y';
27251 SNAX_6100 := 'Y';
27261 SPLICE_NetMonths := 0;
27271 T_TEXT := 'Y';
27281 TR_3271 := 'N';
27291 End; ( Procedure INITIALIZE_SOFTWARE_INPUTS )
27301
27311
27321
27331 PROCEDURE GET_SOFTWARE_INPUTS;
27341
27351 Begin
27361 screen_fieldSS := 21;
27371 varSS := 1;
27381 retrievCSS := False;
27391 last_fieldSS := False;
27401 DISPLAY_SCREEN (Screenfile);  // Display Screen

27411

27421 REPEAT ( until answerSS = 'Y' )
27431 // Display Items, Change retrievCSS to True and INPUT items
27441 // Display Screen

27451 ONE varSS of
27461 1: GETITEM(6,5,0,'Y',FILE_SECURITY,'U',,,retrievCSS,retSS,retSS,15,1);
27471 2: IF Stock Point = 'Y' THEN
27481 3: GETITEM(6,5,0,'Y',AM_6520,'U',,,retrievCSS,retSS,retSS,15,1);
27491 4: GETITEM(6,5,0,'Y',ATP_6100,'U',,,retrievCSS,retSS,retSS,15,1);
APPENDIX B: MAINTENANCE MANUAL  Page 89

Page 56

SPLICE.PAS—include file SPLICE2.PAS Program Listing

2751 I 5: GETITEM(36,10,1,'Y',ADCCP_6100,'U','''',retSS,retrieveSS,15,1);
2752 I 6: GETITEM(36,11,1,'Y',POLL_SELECT,'U','''',retSS,retrieveSS,15,1);
2753 I 7: GETITEM(36,12,1,'Y',SNAX_6100,'U','''',retSS,retrieveSS,15,1);
2754 I 8: GETITEM(36,13,1,'Y','TIME_6100','U','''',retSS,retrieveSS,15,1);
2755 I 9: GETITEM(36,14,1,'Y','ITR_3271','U','''',retSS,retrieveSS,15,1);
2756 I 10: GETITEM(36,15,1,'Y','AM_6520','U','''',retSS,retrieveSS,15,1);
2757 I 11: GETITEM(36,16,1,'Y','T_TEXT','U','''',retSS,retrieveSS,15,1);
2758 I 12: GETITEM(74,5,1,'Y','NMF_GROUP','U','''',retSS,retrieveSS,15,1);
2759 I 13: GETITEM(74,6,1,'Y','NMF_Diagnostics','U','''',retSS,retrieveSS,15,1);
2760 I 14: GETITEM(74,7,1,'Y','NMF_Accounting','U','''',retSS,retrieveSS,15,1);
2761 I 15: GETITEM(74,8,1,'Y','NMF_Group','U','''',retSS,retrieveSS,15,1);
2762 I 16: IF NMF_Group = 'N' THEN
2763 I 17: IF NMF_Group = 'N' THEN
2764 I 18: IF NMF_Group = 'N' THEN
2765 I 19: IF NMF_Group = 'N' THEN
2766 I 20: IF Stock_Point = 'S' THEN
2767 I 21: GETITEM(60,21,2,'N',SPLICE_Months,'##',0,12,retSS,retrieveSS,15,1);
2768 I 22: GETITEM(60,22,2,'N',SPLICE_Months,'##',0,12,retSS,retrieveSS,15,1);
2769 I 23: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2770 I 24: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2771 I 25: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2772 I 26: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2773 I 27: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2774 I 28: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2775 I 29: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2776 I 30: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2777 I 31: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2778 I 32: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2779 I 33: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2780 I 34: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2781 I 35: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2782 I 36: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2783 I 37: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2784 I 38: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2785 I 39: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2786 I 40: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2787 I 41: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2788 I 42: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2789 I 43: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2790 I 44: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2791 I 45: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2792 I 46: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2793 I 47: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2794 I 48: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2795 I 49: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2796 I 50: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2797 I 51: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2798 I 52: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2799 I 53: IF varSS = screen_fieldSS THEN last_fieldSS:=True;
2800 I /* *********************************************************/
APPENDIX B: MAINTENANCE MANUAL  Page 90

SPLICE.PAS--include file SPLICE2.PAS Program Listing

Page 57

28011 ( used in any maintenance computations. )

28021 {*************************************************************************/

28031 28041 Begin ( Procedure PRINT SW )

28051 CASE Type_Software of

28061 1: Begin ( Per Processor Basis )

28071  Maint_Factor := Maint_Esc_Rate;

28081   Extended_Price := Quantity * CostTable[1].purchprice;

28091  End;

28101 2: Begin ( Per Site Basis )

28111   Maint_Factor := Maint_Esc_Rate;

28121   Extended_Price := CostTable[1].purchprice;

28131  End;

28141 3: Begin ( Per Processor Basis )

28151   Maint_Factor := 1;

28161   Extended_Price := Quantity * CostTable[1].purchprice;

28171 End;

28181 End; ( End of CASE Statement )

28191 LINE_SETUP;

28201 {*************************************************************************/

28211 28221 Procedure PRINT SW1

28231 28241 28251 CASE Type_Software of

28261 1: Begin ( Per Processor Basis )

28271   Maint_Factor := Maint_Esc_Rate;

28281   Extended_Price := Quantity * CostTable[1].purchprice;

28291  End;

28301 2: Begin ( Per Site Basis )

28311   Maint_Factor := Maint_Esc_Rate;

28321   Extended_Price := CostTable[1].purchprice;

28331  End;

28341 3: Begin ( Per Processor Basis )

28351   Maint_Factor := 1;

28361   Extended_Price := Quantity * CostTable[1].purchprice;

28371 End;

28381 End;

28391 END of CASE Statement }

28401 LINE_SETUP;

28411 {*************************************************************************/

28421 28431 28441 Procedure COMPUTE_PROCESSOR_SOFTWARE:

28451 28461 BEGIN

28471 IF Quantity = 0 THEN

28481 PRINT_SW (1);

28491 PRINT_SW (1);

28501 END;
APPENDIX B: MAINTENANCE MANUAL  Page 91

SPLICE.PAS-include file SPLICE2.PAS Program Listing

28511 PRINT_SW (2);  | PER-SITE SOFTWARE |
28521 I := I + 1;  | I=65 System Utilities |
28531 PRINT_SW (2);  | PER-SITE SOFTWARE |
28541 I := I + 1;  | I=66 ENCOMPASS |
28551 PRINT_SW (1);  | PER-PROCESSOR SOFTWARE |
28561 I := I + 5;  | Skips 5 p/o software packages |
28571 I := I + 1;  | I=72 TPS Software |
28581 PRINT_SW (2);  | PER-SITE SOFTWARE |
28591 I := I + 5;  | Skips 5 p/o software packages |
28601 END
28611 ELSE I := I + 15;
28621 I := I + 1;  | I=78 File Security Software |
28631 IF File_Security = 'Y' THEN PRINT_SW (2);
28641 I := I + 1;  | I=79 Card Reader Software |
28651 PRINT_SW (1);  | PER-SITE SOFTWARE |
28661 IF CardRdr > 0 THEN PRINT_SW (2);
28671 I := I + 1;  | Skips 3 p/o software packages |
28681 END;  | Procedure COMPUTE_PROCESSOR_SOFTWARE |
28691
28701 PROCEDURE COMPUTE_COMMUNICATIONS_SOFTWARE;
28711
28721
28741 Temp_Months : Integer;
28751
28761
28771 PROCEDURE COMPUTE_TANDEM_SOFTWARE;
28781
28791 BEGIN  | Procedure COMPUTE_TANDEM_SOFTWARE |
28801 Quantity := Processors;
28811 IF Quantity > 0 THEN
28821 BEGIN
28831 I := I + 1;  | I=83 EXPAND Software |
28841 PRINT_SW (1);  | PER-PROCESSOR SOFTWARE |
28851 I := I + 1;  | I=84 Skips Exchange RIE Software |
28861  | Possibly need to add choices to software screen for next two items |
28871 I := I + 1;  | I=85 AM 1270 Software |
28881 PRINT_SW (1);  | PER-PROCESSOR SOFTWARE |
28891 I := I + 1;  | I=86 X.25 ACCESS Software |
28901 PRINT_SW (1);  | PER-PROCESSOR SOFTWARE |
28911 END
28921 ELSE I := I + 4;
28931 I := I + 1;  | Skips 1st HYPERLINK Access Method S/W
28941 I := I + 1;  | I=88 KPD URL PIP
28951 IF (SiteInfo.SiteType = 'S') AND (URL_PID = 'Y') THEN
28961 PRINT_SW (1);
28971 I := I + 1;  | I=89 Skip SITE Terminal Support |
28981 I := I + 1;  | I=90 AIP 6100 |
28991 IF AIP 6100 = 'Y' THEN PRINT_SW (11);
29001 I := I + 1;  | I=91 AIP 6100 |
APPENDIX B: MAINTENANCE MANUAL  Page 92

SPLICE.PAS - include file SPLICE2.PAS Program Listing

2901 IF BSC_6100 = 'Y' THEN PRINT_SW (1);
2902 I := I + 1;  { I=92 ADDCP 6100 }
2903 IF ADDCP_6100 = 'Y' THEN PRINT_SW (1);
2904 I := I + 1;  { I=93 TIMET 6100 }
2905 IF TIMET_6100 = 'Y' THEN PRINT_SW (1);
2906 I := I + 1;  { I=94 BURROUGHS POLL-SELECT }
2907 IF POLL_SELECT = 'Y' THEN PRINT_SW (1);
2908 I := I + 1;  { I=95 SNAX 6100 }
2909 IF SNAX_6100 = 'Y' THEN PRINT_SW (1);
2910 I := I + 1;  { I=96 3271 }
2911 IF TR_3271 = 'Y' THEN PRINT_SW (1);
2912 I := I + 1;  { I=97 AM 6520 }
2913 IF AM_6520 = 'Y' THEN PRINT_SW (1);
2914 I := I + 1;  { I=98 FDC SNA Interface Package }
2915 IF FDC_SNA = 'Y' THEN PRINT_SW (2);  { PER-SITE SOFTWARE }
2916 I := I + 1;  { I=99 FDC MAIN Interface Package }
2917 IF FDC_DIANet = 'Y' THEN PRINT_SW (2);  { PER-SITE SOFTWARE }
2918 End;  { Procedure COMPUTE_TANDEM_SOFTWARE }

2919
2920 PROCEDURE COMPUTE_HYPERCHANNEL_SOFTWARE;

2921 Begin  { Procedure COMPUTE_HYPERCHANNEL_SOFTWARE }
2922
2923 Begin  { Procedure COMPUTE_HYPERCHANNEL_SOFTWARE }
2924
2925 Temp_Months := Maint_Months;
2926 Maint_Months := NETEX_Months;
2927 IF (SiteInfo.site_type = 'S') AND (Month = '9')
2928 Begin
2929 Quantity := ALL;
2930 PRINT_SW (3);
2931 I := I + 1;
2932 Quantity := 1;
2933 Maint_Months := AMERICA
2934 PRINT_SW (2);
2935 End
2936 Else I := I + 2;
2937 Maint_Months := NETEX_Months;
2938 I := I + 1;
2939 IF (SiteInfo.site_type = 'S') AND (Month = '9')
2940 Begin
2941 Quantity := AMER;
2942 PRINT_SW (3);
2943 I := I + 2;
2944 Quantity := 1;
2945 Maint_Months := AMERICA
2946 PRINT_SW (2);
2947 End
2948 I := I + 2;
2949 Maint_Months := NETEX_Months;
2950 I := I + 1;
IF (Siteinfo.site_type = 'S') AND ((A400 - THYPERchannels) > 0) THEN

Begin

Quantity := (A400 - THYPERchannels);
PRINT SW (3);
I := I + 2;

End

Else I := I + 2;

End

IF (Siteinfo.site_type = 'S') AND ((A400 - THYPERchannels) > 0) THEN

Begin

Quantity := (A400 - THYPERchannels);
PRINT SW (3);
I := I + 2;

End

Else I := I + 2;

End

IF (Siteinfo.site_type = 'S') AND (A140 > 0) THEN

Begin

Quantity := A140;
PRINT SW (3);
I := I + 2;

End

Else I := I + 2;

End

IF (Siteinfo.site_type = 'S') AND (THYPERchannels > 0) THEN

Begin

Quantity := THYPERchannels;
PRINT SW (3);
I := I + 2;

End

Else I := I + 2;

End

Quantity := 1;

End

Quantity := 1;

End
3001 PROCEDURE COMPUTE_DDN_SOFTWARE;
3002
3003 Begin ( Procedure COMPUTE_DDN_SOFTWARE )
3004 I := I + 2;  | SKIPS TWO OLD DDM PACKAGES |
3005 Quantity := PROCESSORS;  | PER-PROCESSOR SOFTWARE |
3006 Maint_Months := SPLICENet_Months;
3007 I := I + 1;  | I=123 DDM I/F Protocol Software |
3008 IF DDM = 'Y' THEN PRINT_SW (2);  | PER-SITE SOFTWARE |
3009 Maint_Months := Temp_Months;
3010 I := I + 1;  | I=122 NETWORK MVP FACILITY GROUP |
3011 IF NMP_Group = 'Y' THEN PRINT_SW (2);
3012 I := I + 1;  | I=123 NMP Base Facility |
3013 IF NMP_Base_Facility = 'Y' THEN PRINT_SW (2);
3014 I := I + 1;  | I=124 NMP Performance Monitoring |
3015 IF NMP_Performance = 'Y' THEN PRINT_SW (2);
3016 I := I + 1;  | I=125 NMP Diagnostic Monitoring |
3017 IF NMP_Diagnostics = 'Y' THEN PRINT_SW (2);
3018 I := I + 1;  | I=126 NMP Accounting Application |
3019 Quantity := Processors;
3020 IF NMP_Accounting = 'Y' THEN PRINT_SW (2);
3021 I := I + 2;  | SKIPS 2 p/u software packages |
3022 End;  | Procedure COMPUTE_DDN_SOFTWARE |
3023
3024 BEGIN ( Procedure COMPUTE_COMMUNICATIONS_SOFTWARE )
3025 COMPUTE_TANDEM_SOFTWARE;
3026 COMPUTE_HYPERTHREAD_SOFTWARE;
3027 COMPUTE_DDN_SOFTWARE:
3028 END;  | Procedure COMPUTE_COMMUNICATIONS_SOFTWARE |
3029
3030 PROCEDURE COMPUTE.Utility_SOFTWARE;
3031
3032 BEGIN ( Procedure COMPUTE.Utility_SOFTWARE )
3033 IF Processors > 0 THEN PRINT_SW (2);  | PER-PROCESSOR SW |
3034 Quantity := Processors;
3035 IF Processors = 0 THEN PRINT_SW (2);  | PER-PROCESSOR SW |
3036 IF (GateInfo.Intents = 2) OR (GateInfo.Intents = 3) THEN
3037 BEGIN
3038 I := I + 1;
3039 IF Quantity > 0 THEN PRINT_SW (2);  | PER-PROCESSOR SW |
3040 END
3041 ELSE I := I + 1;
3042 IF GateInfo.Intents = 2 OR GateInfo.Intents = 3 THEN
3043 BEGIN
3044 I := I + 1;
3045 IF Processors > 0 THEN PRINT_SW (2);  | PER-PROCESSOR SW |
3046 END
3047
APPENDIX B: MAINTENANCE MANUAL

Page 62

SPLICE.PAS—include file SPLICE2.PAS Program Listing

30511 Else I := I + 1;
30521 I := I + 15;  // Skips 15 p/o software packages.
30531 I := I + 1;   // I=149 TRANSFER
30541 IF Processors > 0 THEN PRINT_SW (1) ; // PER-PROCESSOR Software
30551 I := I + 1;   // I=150 T-TEXT Software
30561 IF T_TEXT = 'Y' AND (Processors > 0) THEN PRINT_SW (2);
30571 I := I + 2;   // Skips two 1-time charge FMS0 pkgs
30581 End;  // Procedure COMPUTE UTILITYSOFTWARE
30591
30601 Begin { Procedure CONFIGURE SOFTWARE }
30611 INITIALIZE_SOFTWARE_INPUTS;
30621 GET_SOFTWARE_INPUTS;
30631 COMPUTE_PROCESSOR_SOFTWARE;
30641 COMPUTE_COMMUNICATIONS_SOFTWARE;
30651 COMPUTE UTILITY_SOFTWARE;
30661 COMPUTE SECTION_TOTALS ('Documentation');
30671 Mode := Document;
30681 End;   // Procedure CONFIGURE SOFTWARE
30691
30701
30711 PROCEDURE INITIALIZE_LAST_SCREEN_DATA;
30721
30731 Begin { Procedure INITIALIZE_LAST_SCREEN_DATA }
30741 { Initialize Variables To Default Values }
30751 Computer_Ops := 0;
30761 Data_Communication := 0;
30771 Hardware_Manual := 0;
30781 Hardware_Overview := 0;
30791 Operator_Training := 0;
30801 Per_Call_Months := 3;
30811 Programmer_Ref := 0;
30821 Site_Prep := 'N';
30831 SPLICENet_Workshop := 0;
30841 Sys_Programmer := 0;
30851 Sys_Personnel := 0;
30861 Sys_Tuning_Xray := 0;
30871 TAL := 0;
30881 Training_Group := 5;
30891 End;    // Procedure INITIALIZE_LAST_SCREEN_DATA
30901
30911
30921 PROCEDURE GET_LAST_SCREEN_DATA;
30931
30941 Begin { Procedure GET_LAST_SCREEN_DATA }
30951 screen_fieldSS := 14;
30961 varSS := 1;
30971 retrieveSS := False;
30981 Last_fieldSS := False;
30991 DISPLAY_SCREEN (Screenfile);  // Display Screen

232
SPLICE2.PAS Program Listing

31011 REPEAT { until answerSS = 'Y' }
31021 Display Items. Change retrieveSS to True and INPUT items
31031 REPEAT { until actionSS = exitSS }
31041 CASE varSS of
31051 1: GETINT(35,5,2,'N',Computer_Usps,'##',0,20,retSS,retrievesSs,15,11);
31061 2: GETINT(35,7,2,'N',Programmer_Ref,'##',0,20,retSS,retrievesSs,15,11);
31071 3: GETINT(35,9,2,'N',Hardware_Manual,'##',0,20,retSS,retrievesSs,15,11);
31081 4: GETINT(35,11,2,'N',Sys_Programmer,'##',0,20,retSS,retrievesSs,15,11);
31091 5: GETINT(70,5,1,'N',Training_Group,'##',1,5,retSS,retrievesSs,15,11);
31101 6: GETINT(75,10,2,'N',Operator_Training,'##',0,20,retSS,retrievesSs,15,11);
31111 7: GETINT(75,11,2,'N',Hardware_Overview,'##',0,20,retSS,retrievesSs,15,11);
31121 8: GETINT(75,12,2,'N',Sys_Resource,'##',0,20,retSS,retrievesSs,15,11);
31131 9: GETINT(75,13,2,'N',Sys_Tuning_Xray,'##',0,20,retSS,retrievesSs,15,11);
31141 10: GETINT(75,14,2,'N',Data_Communication,'##',0,20,retSS,retrievesSs,15,11);
31151 11: GETINT(75,15,2,'N',TAL,'##',0,20,retSS,retrievesSs,15,11);
31161 12: GETINT(75,16,2,'N',SPICENet_Workshop,'##',0,20,retSS,retrievesSs,15,11);
31171 13: GETINT(75,23,1,'N',Per_Call_Months,'##',0,12,retSS,retrievesSs,15,11);
31181 14: GETITEM(75,23,1,'Y',Site_Prepss,'U''''',retSS,retrievesSs,15,11);
31191 End; | CASE |
31201 IF varSS = screen_fieldSS THEN last_fieldSS := True;
31211 RET_STATUS; | Check code in "retSS". Set "varSS" and "actions" |
31221 | Check to see whether to switch retrieveSS to true |
31231 IF last_fieldSS AND (not retrieveSS) THEN
31241 Begin
31251 retrieveSS := True;
31261 last_fieldSS := False;
31271 actionsSS := staySS;
31281 varSS := 1;
31291 End;
31301 ELSE
31311 last_fieldSS := False;
31321 UNTIL actionsSS = exitSS;
31331 ACCEPT_INPUTS;
31341 UNTIL answerSS = 'Y';
31351 End; | Procedure GET_LAST_SCREEN_DATA |
31361 |
31371 |
31381 | PROCEDURE MAINTENANCE_DOCUMENTATION |
31391 |
31401 | This procedure simply uses the repetitive terminal out procedure |
31411 | to output the 4 categories of manuals for the user and asks |
31421 | how many of each should be output on the following order: Output |
31431 | program to disk via the PRINT for a TECO procedure, |
31441 | described above. Then return VALUE for actual order to file. |
31451 |
31461 |
31471 |
31481 |
31491 |
31501 |
APPENDIX B: MAINTENANCE MANUAL

Page 64

SPLICE.PAS: include file SPLICE2.PAS Program Listing

3151 Begin ( Procedure CONFIGURE_DOCUMENTATION )
3152  I := I + 1;                { I=153 Computer Operations Manual }
3153  Quantity := Computer_Ops;
3154  IF Quantity > 0 THEN PRINT_DOC_OR_TRNG;
3155  I := I + 1;                { I=154 Systems Programmer Manual }
3156  Quantity := Sys_Programmer;
3157  IF Quantity > 0 THEN PRINT_DOC_OR_TRNG;
3158  I := I + 1;                { I=155 Hardware Manual }
3159  Quantity := Hardware_Manual;
3160  IF Quantity > 0 THEN PRINT_DOC_OR_TRNG;
3161  I := I + 1;                { I=156 Programmer Reference Manual }
3162  Quantity := Programmer_Ref;
3163  IF Quantity > 0 THEN PRINT_DOC_OR_TRNG;
3164  COMPUTE_SECTION_TOTALS ("Training" );
3165  Node := Train;
3166  End;                      { Procedure CONFIGURE_DOCUMENTATION }
3167
3168 PROCEDURE CONFIGURE_TRAINING;
3169
3170  ******************************************************************************************************************
3171  PROCEDURE simply uses the repetitive terminal out procedures
3172  PRINT and WRITE to list the 7 categories of courses for the
3173  user and asks which/how many of each should be output on the
3174  display or let output be written to disk via the
3175  PRINT_DOC or PRINT PROC procedure, described above. Uses WRITE_A_LINE
3176  to print all written to disk.
3177  ***************************************************************
3178
3179  ******************************************************************************************************************
3180  PROCEDURE CONFIGURE_TRAINING
3181  Internally configures 7 groups of training categories
3182  which, when output should be output on the display or written to disk.
3183  ******************************************************************************************************************
3184  PROCEDURE CONFIGURE_TRAINING
3185  Internally configures 7 groups of training categories
3186  which, when output should be output on the display or written to disk.
3187  ******************************************************************************************************************
3188  Procedure CONFIGURE_TRAINING
3189  Internally configures 7 groups of training categories
3190  which, when output should be output on the display or written to disk.
3191  Procedure CONFIGURE_TRAINING
3192  Internally configures 7 groups of training categories
3193  which, when output should be output on the display or written to disk.

234
APPENDIX B: MAINTENANCE MANUAL

Page 65

SPLICE.PAS—include file SPLICE2.PAS Program Listing

32011 I := I + 4; { I=160 Training Group IV }
32021 Quantity := 1;
32031 PRINT_DOC_or_TRNG;
32041 End;
32051 5: I := I + 4;
32061
32071 End;
32081 I := I + 1; { I=161 Operator Training Course }
32091 Quantity := Operator_Training;
32101 IF Operator_Training > 0 THEN PRINT_DOC_or_TRNG;
32111 I := I + 1; { I=162 Hardware Overview Course }
32121 Quantity := Hardware_Overview;
32131 IF Hardware_Overview > 0 THEN PRINT_DOC_or_TRNG;
32141 I := I + 1; { I=163 System Resource Mgmt Course }
32151 Quantity := Sys_Resource;
32161 IF Sys_Resource > 0 THEN PRINT_DOC_or_TRNG;
32171 I := I + 1; { I=164 Systems Tuning and XRAY Course }
32181 Quantity := Sys_Tuning_Xray;
32191 IF Sys_Tuning_Xray > 0 THEN PRINT_DOC_or_TRNG;
32201 I := I + 1; { I=165 Data Communications Course }
32211 Quantity := Data_Communication;
32221 IF Data_Communication > 0 THEN PRINT_DOC_or_TRNG;
32231 I := I + 1; { I=166 TANDEM Application Long Course }
32241 Quantity := TAL;
32251 IF TAL > 0 THEN PRINT_DOC_or_TRNG;
32261 I := I + 1; { I=167 SPLICENet Workshop }
32271 Quantity := SPLICENet_Workshop;
32281 IF SPLICENet_Workshop > 0 THEN PRINT_DOC_or_TRNG;
32291 COMPUTE_SECTION_TOTALS ('Maintenance');
32301 Mode := Maint;
32311 End; { Procedure CONFIGURE_MAINT }
APPENDIX B: MAINTENANCE MANUAL

Page 66

SPLICE.PAS - include file SPLICE2.PAS Program Listings

3251 ( emg_maint_rate input by the user. Uses WRITE_A_LINE to )
3252 ( actually write to disk. )
3253 (***************************************************************
3254 )
3255 Begin ( FDC Emergency Maint )
3256 Maint_Months := 0;
3257 Maint_Factor := Emg_maint_rate;
3258 Extended_Price := 0;
3259 WRITE_A_LINE;
3260 End; ( Procedure PRINT_MNT )
3261
3262 Begin ( Procedure CONFIGURE_MAINTENANCE )
3263 (***************************************************************
3264 1 := 1 + 1; ( I=168 PM On-Call )
3265 (***************************************************************
3266 IF (Totals [0, 1] > 0) OR (Totals [1, 1] > 0) OR (Totals [2, 1] > 0) OR
3267 (Totals [3, 1] > 0) OR (Totals [4, 1] > 0) OR (Totals [5, 1] > 0) OR
3268 (Totals [0, 2] > 0) OR (Totals [1, 2] > 0) OR (Totals [2, 2] > 0) OR
3269 (Totals [3, 2] > 0) OR (Totals [4, 2] > 0) OR (Totals [5, 2] > 0) THEN
3270 Begin
3271 Quantity := 1;
3272 PRINT_MNT;
3273 End;
3274 ELSE I := I + 2;
3275 BEGIN End; ( Procedure CONFIGURE_MAINTENANCE )
3276
3277 Begin ( Procedure CONFIGURE COMPONENTS )
3278 CONFIGURE_HARDWARE;
3279 CONFIGURE_SOFTWARE;
3280 INITIALIZE_LAST_SCREEN_DATA;
3281 GET_LAST_SCREEN_DATA;
3282 CONFIGURE_DOCUMENTATION;
3283 CONFIGURE_TRAINING;
3284 CONFIGURE_MAINTENANCE;
3285 End; ( Procedure CONFIGURE COMPONENTS )
Const
LF : Char = #10;  (Decimal Value for an ASCII line feed)
CR : Char = #13;  (Decimal Value for an ASCII carriage return)
Ctrl_Z : Char = ^Z;  (Value of ASCII "Control-Z" end-of-file marker)

Var
System_Downtime : Real;

Begin  (Procedure SUMMARIZE)
System_Downtime := ((Subtotals [0, 1] + Subtotals [0, 3] + Subtotals [1, 1])
  + Subtotals [1, 3] + Costtable[I].purchprice)/48) + System_Downtime_Component) * 0.0125;
WRITELN (Diskfile);
WRITELN (Diskfile, "NOTES:" );
WRITELN (Diskfile);
WRITELN (Diskfile, "'MAINTENANCE OPTION = ', Siteinfo.maint_options,
  '"");
WRITELN (Diskfile);
WRITELN (Diskfile, "MAINTENANCE REPAIR AND RESPONSE = ",
  Siteinfo.maint_response,
  '"');
WRITELN (Diskfile);
WRITELN (Diskfile, "SYSTEM DOWNTIME CREDIT FACTOR PER HOUR EQUALS: $",
WRITELN (Diskfile);
WRITELN (Diskfile, CR, LF, CtrlZ);
CLOSE (Diskfile);
CLOSE (Screenfile);
WRITELN (12);
ClrScr;
QUIT (4); 51;
WRITELN ("Thank you for using the SPLICE configurator." );
WRITELN;
WRITELN;
WRITELN;
WRITELN;
WRITELN (15);
WRITELN ("Your output file is called ':48, PRD_FILE 'temp',");
WRITELN;
WRITELN;
WRITELN (11);
WRITELN ("The output file is ready for import into ROUTE 1.");
APPENDIX B: MAINTENANCE MANUAL

Page 68

SPLICE.PAS Program Listing

3350   TextColor (15);
3351   End;  ( Procedure SUMMARIZE )
3352
3353
3354   Begin
3355      INITIALIZE;
3356      CONFIGURE_COMPONENTS;
3357      SUMMARIZE;
3358   End.

Page 101
**PROCEDURE CONFMOD.PRG**

* AUTHORS :
  - LCDR EDWARD J. CASE, SC, USN
  - LCDR WINSTON H. BUCKLEY, SC, USN
  - LCDR ROBERT F. BRADO, USN
  - LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE :
  PROVIDE THE USER THE OPPORTUNITY TO MODIFY OR REVIEW ALL DATA IN THE SITE CONFIGURATION DATABASE.

* INPUT FILES : NONE

* OUTPUT FILE : NONE

* MODULES CALLED : CONFPUPD.PRG, CONFPREV.PRG

* CALLED BY : MAINMENU.PRG

* LOCAL VARIABLES : SELEKT

* DATE LAST TIME MODIFIED : DECEMBER 1985

* DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE SELECTION.

STORE "1" TO SELEKT
DO WHILE SELEKT < "3"
  SET COLOR TO W/B, W/B
  CLEAR
  ?? FLASH "W.CONFMOD/"
  SET CONSOLE OFF
  WAIT TO SELEKT
  SET CONSOLE ON

* PROCESS ROUTINE BASED ON THE USER'S SELECTION.

DO CASE
  CALL THE SITE CONFIGURATION UPDATE PROGRAM.
  CASE SELEKT = "1"
    DO CONFPUPD

  CALL THE SITE CONFIGURATION REVIEW PROGRAM.
  CASE SELEKT = "2"
    DO CONFPREV

  RETURN TO THE MAIN MENU PROGRAM.
  CASE SELEKT = "3"
ENDCASE
51  *
52  ENDDO WHILE SELEKT < "3"
53  *
54  *  RETURN TO THE CALLING PROGRAM
55  *
56  RETURN
57  *****************************************************************************
* PROCEDURE CONFREV.PRG

* AUTHORS: LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE: TO ENABLE THE USER TO REVIEW ANY DATA ELEMENT IN
* THE SITE NAME DATABASE.

* INPUT FILES: CONFIG.DBF INDICES: CONFIG.NDX
* OUTPUT FILES: NONE
* CALLED BY: CONFMOD.PRG
* MODULES CALLED: DELAY.PRG

* GLOBAL VARIABLE: HISITE, LOSITE

* LOCAL VARIABLES: ACCEPT, ANS, CHOICE, ERROR, FIRSTREC, LASTREC,
* MADD1, MADD2, MCITY, MCO, MESSAGE, MNAME, MNAMEPL,
* MOTH, MSRESP, MSITE, MSTATE, MTYPE, MZIP

* DATE LAST TIME MODIFIED ============== 23 DECEMBER 1985 ===============

* CASE SELECTION = 2 REVIEW EXISTING RECORDS

* USE THE SITE NAME (CONFIG) DATABASE USING THE SITE NUMBER INDEX.

SET ESCAPE OFF
SET TALK OFF
USE CONFIG
GO TOP
SET COLOR TO W+/B,W+/B,B
CLEAR
IF EOF() = .T. THEN
   SET COLOR TO W+/R, W+/R
   @ 13,24 SAY " The SITE NAME Database is EMPTY! "
DO DELAY
RETURN
ENDIF
?? FLASH + "S.SITENAME.SCR/"
@ 24,0 SAY SPACE (80)
SET COLOR TO R+/R, R+/R
@ 3,23 SAY ' SITE ADDRESS DATA REVIEW FORMAT '
STORE 'Enter 00 to start at TOP, 99 to start at EOF, or a site ' +
   ' number between ' + HISITE + ' and ' + HISITE + ' TO MESSAGE
SET COLOR TO /W, /W
@ 24,0 SAY MESSAGE
DO WHILE .T.
  SET COLOR TO /BR, /BR
  STORE '00' TO MSITE
  @ 7,25 GET MSITE PICT '99'
  READ
  IF .NOT. ((MSITE = '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
    SET COLOR TO W/B, W/B
    @ 24,0 SAY SPACE(80)
    SET COLOR TO W+/R, W+/R
    STORE ' Response must be between ' + LOSITE + ' and ' + 
          HISITE + ', Zero (00) or 99 ' TO ERROR
    @ 24,13 SAY ERROR
    DO DELAY
    SET COLOR TO /W, /W
    @ 24,0 SAY MESSAGE
    LOOP
  ELSE
    IF (MSITE = '00' .OR. MSITE = '99') THEN
      USE CONFIG
      IF MSITE = '00' THEN
        GO BOTTOM
        STORE RECNO() TO LAST_REC
        GO TOP
        STORE RECNO() TO FIRST_REC
      ELSE
        GO TOP
        STORE RECNO() TO FIRST_REC
        GO BOTTOM
        STORE RECNO() TO LAST_REC
      ENDIF MSITE = '00'
      EXIT
    ELSE
      USE CONFIG INDEX CONFIG.NDX
      GO TOP
      STORE RECNO() TO FIRST_REC
      GO BOTTOM
      STORE RECNO() TO LAST_REC
      FIND &MSITE
      IF EOF() = .T. THEN
        SET COLOR TO W/B, W/B
        @ 24,0 SAY SPACE(80)
        STORE " No records exist for site number " + MSITE + 
              " , try again " TO ERROR
        @ 24,16 SAY ERROR
        SET COLOR TO W+/R, W+/R
        DO DELAY
        SET COLOR TO /W, /W
        @ 24,0 SAY MESSAGE
        LOOP
      ELSE
APPENDIX B: MAINTENANCE MANUAL

CONFREV.PRG Program Listing

101  EXIT
102  ENDIF EOF() = .T.
103  ENDIF (MSITE = '00' .OR. MSITE = '99')
104  ENDIF
105  ENDDO WHILE .T.
106 *
107  SET COLOR TO W/B, W/B
108 @ 24,0 SAY SPACE(80)
109 *
110 DO WHILE .T.
111  SET COLOR TO R+/B, R+/B
112 @ 5,47 SAY RECNO() PICT "999"
113  SET COLOR TO /BR, /BR
114 @ 7,25 SAY SITENO PICT "99"
115 @ 8,25 SAY SITENAME PICT "" " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " 

143  ENDDO
144 *
145  SKIP TO THE NEXT RECORD TO BE REVIEWED
146 *
147  IF CHOICE = "." THEN
148    IF RECNO () = LAST_REC THEN
149      (Z) TOP
150    ELSE

243
APPENDIX B: MAINTENANCE MANUAL

CONFREV.PRG Program Listing

151 | SKIP
152 | ENDIF
153 | ENDIF
154 | *
155 | * SKIP TO THE PREVIOUS RECORD TO BE REVIEWED
156 | *
157 | IF CHOICE = "P" THEN
158 | IF RECN0() = FIRST_REC THEN
159 | (G) BOTTOM
160 | ELSE
161 | SKIP -1
162 | ENDIF
163 | ENDIF
164 | *
165 | * USER HAS DECIDED TO EXIT THE REVIEW
166 | *
167 | IF CHOICE = "X"
168 | EXIT
169 | ENDIF
170 | *
171 | ENDDO WHILE .T.
172 | *
173 | * RETURN TO CALLING PROGRAM.
174 | *
175 | RELEASE ALL LIKE M*, ACCEPT, ANS, CHOICE, ERROR, FIRST_REC, LAST_REC
176 | CLOSE DATABASES
177 | RETURN
178 | *******************************************************************
* PROCEDURE CONFUPD.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
  LCDR WINSTON H. BUCKLEY, SC, USN
  LCDR ROBERT F. BRADO, USN
  LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : TO ENABLE THE USER TO MODIFY ANY DATA ELEMENT IN
            THE SITE NAME DATABASE.

* INPUT FILES : CONFIG.DBF INDICES: CONFIG.NDX

* OUTPUT FILES : CONFIG.DBF, INDICES: CONFIG.NDX

* SUBROUTINES CALLED : DELAY.PRG

* CALLED BY : CONFMOD.PRG

* GLOBAL VARIABLE: HISITE, LOSITE

* LOCAL VARIABLES: ACCEPT, ANS, CHOICE, ERROR, FIRST_REC, LAST_REC,
  MADD1, MADD2, MCITY, MD, MESSAGE, MNAME, MNAMEFL, MNAMEFLQ
  MSTD, MRESP, NSITE, STATE, MSTATE, MTYPE, MZIP, SAVEIT

* DATE LAST TIME MODIFIED = 23 DECEMBER 1985

BEGIN

CASE SELECTION = 1 UPDATE EXISTING RECORDS

USE THE SITE NAME (CONFIG.DBF) DATABASE USING SITE NUMBER INDEX.

SET ESCAPE OFF

SET SCOREBOARD OFF

SET TALK OFF

USE CONFIG

GO TOP

SET COLOR TO W+/B, W+/B, B

CLEAR

IF EOF() = .T. THEN
  * SD:
  SET COLOR TO W+/R, W+/R
  13,24 SAY " The SITE NAME Database is EMPTY! "
  DO DELAY
  RETURN
ENDIF

?? FLASH "S.SITENAME.SCR"  
4 24,0 SAY SPACE(80)
APPENDIX B: MAINTENANCE MANUAL

CONFUPD.PRG Program Listing

51| SET COLOR TO /w, /w
52| @ 24,0 SAY MESSAGE
53| DO WHILE .T.
54|   SET COLOR TO /BR, /BR
55|   STORE '00' TO MSITE
56|   @ 7,25 GET MSITE PICT '99'
57|   READ
58|   IF .NOT. ((MSITE >= '00' AND MSITE <= HISITE) OR MSITE = '99')
59|     SET COLOR TO W/B, W/B
60|     @ 24,0 SAY SPACE(80)
61|     SET COLOR TO W+/R, W+/R
62|     STORE ' Response must be between ' + LOSITE + ' and ' +
63|     HISTE + ' , Zero (00) or 99 ' TO ERROR
64|     @ 24,13 SAY ERROR
65|     DO DELAY
66|     SET COLOR TO /w, /w
67|     @ 24,0 SAY MESSAGE
68|     LOOP
69|   ELSE
70|     IF (MSITE = '00' OR MSITE = '99') THEN
71|       USE CONFIG
72|       IF MSITE = '00' THEN
73|         GO BOTTOM
74|         STORE RECNO() TO LAST_REC
75|         GO TOP
76|         STORE RECNO() TO FIRST_REC
77|       ELSE
78|         GO TOP
79|         STORE RECNO() TO FIRST_REC
80|         GO BOTTOM
81|         STORE RECNO() TO LAST_REC
82|       ENDIF MSITE = '00'
83|       EXIT
84|     ELSE
85|       USE CONFIG INDEX CONFIG.NDX
86|       GO TOP
87|       STORE RECNO() TO FIRST_REC
88|       GO BOTTOM
89|       STORE RECNO() TO LAST_REC
90|       FIND MSITE
91|       IF EOF() = .T. THEN
92|         SET COLOR TO W/B, W/B
93|         @ 24,0 SAY SPACE(80)
94|         STORE " No records exist for site number " + MSITE +
95|         " , try again " TO ERROR
96|         @ 24,16 SAY ERROR
97|         SET COLOR TO W+/R, W+/R
98|         DO DELAY
99|         SET COLOR TO /w, /w
100| @ 24,0 SAY MESSAGE
APPENDIX B: MAINTENANCE MANUAL

Page 3

CONFUPD.PRG Program Listing

101 | LOOP
102 | ELSE
103 | EXIT
104 | ENDIF EOF() = .T.
105 | ENDIF (MSITE = '00' .OR. MSITE = '99')
106 | ENDIF
107 | ENDDO WHILE .T.
108 | * 109 | SET COLOR TO W/B, W/B
110 | @ 24,0 SAY SPACE(80)
111 | * 112 | STORE SPACE(16) + 'Press "Page Down" key to terminate record update' +;
113 | SPACE(16) TO MESSAGE
114 | STORE 1 TO INTRO
115 | DO WHILE .T.
116 |  SET COLOR TO /W, /W
117 | @ 24,0 SAY MESSAGE
118 | * 119 | * 120 | * 121 | IF INTRO = 1 THEN
122 |  STORE 0 TO INTRO
123 |  ?? FLASH + "W.CONFUPD/"
124 |  SET CONSOLE OFF
125 |  WAIT TO ANS
126 |  SET CONSOLE ON
127 | ENDIF
128 | * 129 | * 130 | * STORING THE OLD RECORD TO A WORK RECORD AREA. THE M PREFIX
131 | * 132 | * INDICATES MEMORY VARIABLES DISTINGUISHING THEM FROM THEIR
133 | * 134 | * CORRESPONDING DATABASE FIELDS.
135 | * 136 | * 137 | STORE SITENO TO MSITE
138 | STORE SITENAME TO MNAME
139 | STORE SITECO TO MCO
140 | STORE SITEADD1 TO MAADD1
141 | STORE SITEADD2 TO MAADD2
142 | STORE SITECITY TO MCITY
143 | STORE SITESTATE TO MSTATE
144 | STORE SITEZIP TO MZIP
145 | STORE SITETYPE TO MTYPE
146 | STORE MAINTOPT TO MOPT
147 | STORE MAINTRESP TO MRESP
148 | * 149 | SET COLOR TO R+/B, R+/B
150 | @ 5,47 SAY RECNO() PICT "999"
151 | SET COLOR TO /BR, /BR
152 | * 153 | @ 7,25 SAY MSITE PICT "99"
APPENDIX B: MAINTENANCE MANUAL

Page 4

CONFUPD.PRG Program Listing

151  @ 8,25 GET MNAME PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
152  @ 9,25 GET MCO PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
153  @ 10,25 GET MNAMEFL PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
154  @ 11,25 GET MADD1 PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
155  @ 12,25 GET MADD2 PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
156  @ 13,25 GET MCITY PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
157  @ 14,25 GET MSTATE PICT "."
158  @ 15,25 GET MZIP PICT "9999999999"
159  @ 16,25 SAY MTYPE PICT ".!!!"
160  @ 17,35 GET MOPT PICT ".!!!!"
161  @ 18,35 GET MRESP PICT ".!"
162  READ
163  *
164  * CHECK TO SEE IF ANY RECORD WAS CHANGED
165  *
166  SET COLOR TO W/B, W/B
167  @ 24,0 SAY SPACE(80)
168  STORE 1 TO SAVEIT
169  IF (SITENO = MSITE)
170    IF (SITENAME = MNAME)
171      IF (SITECO = MCO)
172        IF (SITENAMEFL = MNAMEFL)
173          IF (SITEADD1 = MADD1)
174            IF (SITEADD2 = MADD2)
175              IF (SITECITY = MCITY)
176                IF (SITESTATE = MSTATE)
177                  IF (SITEZIP = MZIP)
178                    IF (SITETYPE = MTYPE)
179                      IF (MAINIOPP = MOPT)
180                        IF (MAINTRESP = MRESP)
181                          STORE 0 TO SAVEIT
182                     ENDF
183                     ENDF
184                     ENDF
185                     ENDF
186                     ENDF
187                     ENDF
188                     ENDF
189                     ENDF
190                     ENDF
191                     ENDF
192                     ENDF
193                     ENDF
194  *
195  * ASK THE USER IF HE/SHE DESIRES TO ACCEPT THE CHANGES, ONLY IF ANY
196  * CHANGES WERE MADE
197  *
198  IF SAVEIT = 1 THEN
199    SET COLOR TO W+/B, W+/B
200    @ 20,12 SAY "Do you want to accept the changes? (Yes or No):"
CONFUPD.PRG Program Listing

201 SET COLOR TO R+/B, R+/B
202 @ 20,49 SAY "Y"
203 @ 20,56 SAY "N"
204 STORE "N" TO ACCEPT
205 @ 20,62 GET ACCEPT PICT ".!"
206 READ
207 *
208 * ENSURE THAT THE USER'S PROMPT IS EITHER "Y" OR "N"
209 *
210 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
211 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
212 SET COLOR TO W/B, W/B
213 @ 24,0 SAY SPACE(80)
214 SET COLOR TO W+/R,W+/R
215 @ 24,24 SAY "Response must be either N or Y"
216 DO DELAY
217 STORE "N" TO ACCEPT
218 ENDIF
219 SET COLOR TO R+/B,R+/B
220 @ 20,62 GET ACCEPT PICT ".!"
221 READ
222 ENDDO
223 @ 20,10 SAY SPACE (60)
224 *
225 * STORING THE CORRECTED EDIT FIELDS FROM THE WORK AREA.
226 *
227 IF ACCEPT = "Y" THEN
228 REPLACE SITENO WITH MSITE
229 REPLACE SITENAME WITH MNAME
230 REPLACE SITECO WITH MCO
231 REPLACE SITENAMEFL WITH MNAMEFL
232 REPLACE SITEADD1 WITH MADDO1
233 REPLACE SITEADD2 WITH MADDO2
234 REPLACE SITECITY WITH MCITY
235 REPLACE SITESTATE WITH MSTATE
236 REPLACE SITEZIP WITH MZIP
237 REPLACE SITESTYPE WITH MTYPE
238 REPLACE MAINILOPT WITH MLOPT
239 REPLACE MAINIRESP WITH MRESP
240 ENDIF
241 ENDIF
242 *
243 SET COLOR TO R+/B,R+/B
244 STORE "N" TO CHOICE
245 @ 22,68 GET CHOICE PICT ".!"
246 READ
247 *
248 * ENSURE THAT THE USER'S PROMPT IS EITHER "N", "P" OR "X"
249 *
250 DO WHILE .NOT. (CHOICE = "P" .OR. CHOICE = "Y" .OR. CHOICE = "X")
APPENDIX B: MAINTENANCE MANUAL

CONFUPD.PRG Program Listing

250 IF .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X") THEN
251 SET COLOR TO W/B, W/B
252 @ 24,0 SAY SPACE(80)
253 SET COLOR TO W+/R, W+/R
254 @ 24,23 SAY " Response must be either N, P or X "
255 DO DELAY
256 STORE "N" TO CHOICE
257 ENDIF
258 SET COLOR TO R+/B, R+/B
259 @ 22,68 GET CHOICE PIC I'
260 READ
261 READ
262 * * SKIP TO THE NEXT RECORD TO BE REVIEWED .
263 * * IF CHOICE = "N" THEN
264 IF CHOICE = "N" THEN
265 IF RECNO () = LAST_REC THEN
266 IF RECNO () = LAST_REC THEN
267 GO TOP
268 ELSE
269 ELSE
270 SKIP
271 ENDIF
272 ENDIF
273 * * SKIP TO THE PREVIOUS RECORD TO BE REVIEWED
274 * * IF CHOICE = "P" THEN
275 IF CHOICE = "P" THEN
276 IF RECNO() = FIRST_REC THEN
277 IF RECNO() = FIRST_REC THEN
278 GO BOTTOM
279 ELSE
280 ELSE
281 SKIP -1
282 ENDIF
283 ENDIF
284 * * USER HAS DECIDED TO EXIT THE REVIEW
285 * * IF CHOICE = "X"
286 IF CHOICE = "X"
287 EXIT
288 ENDIF
289 *
290 ENDWHILE .T.
291 *
292 * RETURN TO CALLING PROGRAM.
293 *
294 RELEASE ALL LIKE M*, ACCEPT, ANS, CHOICE, ERROR, FIRST_REC, LAST_REC, SAVEIT
295 CLOSE DATABASES
296 RETURN
297 ******************************************************************************
* PROCEDURE DATERPTS.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : PROVIDE THE USER A SELECTION OF EFFECTIVE DELIVERY
* ORDER DATE LEVEL REPORTS.

* INPUT FILES : NONE

* OUTPUT FILES : NONE

* CALLED BY : REPORCMD.PRG

* MODULES CALLED : EQPDTPRC.PRG, EQPDTPNC.PRG, SNODTPRT.PRG

* LOCAL VARIABLES: DATERPTS

* DATE LAST TIME MODIFIED ========= 18 DECEMBER 1985 ==========

* DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE SELECTION.

* STORE "1" TO DATERPTS
DO WHILE DATERPTS \< "4"
  SET COLOR TO W/B, W/B, B
  CLEAR
?? FLASH + "W.DATERPTS/
  SET CONSOLE OFF
  WAIT TO DATERPTS
  SET CONSOLE ON

* PROCESS ROUTINE BASED ON THE USER'S SELECTION.

  * DO CASE

  * CALL THE EQUIPMENT EFFECTIVE DELIVERY ORDER DATE LEVEL REPORT
    WITH UNIT COST PROGRAM.
    CASE DATERPTS = "1"
    DO EQPDTPRC

  * CALL THE EQUIPMENT EFFECTIVE DELIVERY ORDER DATE LEVEL REPORT
    WITHOUT UNIT COST PROGRAM.
    CASE DATERPTS = "2"
    DO EQPDTPNC

  * CALL THE SERIAL NUMBER EFFECTIVE DELIVERY ORDER DATE LEVEL REPORT.
    CASE DATERPTS = "3"
    DO SNODTPRT
51 | *
52 | * RETURN TO THE SPLICE REPORTING LEVEL MENU.
53 | CASE DATERPTS = "4"
54 | *
55 | ENDCASE
56 | *
57 | ENDDO (WHILE DATERPTS = "4")
58 | *
59 | * RETURN TO THE CALLING PROGRAM
60 | *
61 | RETURN
62 | ************************************************************
APPENDIX B: MAINTENANCE MANUAL  Page 116

Page 1  DELAY.PRG Program Listing

1  * PROCEDURE DELAY.PRG
2  *
3  * AUTHORS : LCDR EDWARD J. CASE, SC, USN
4  *       LCDR WINSTON H. BUCKLEY, SC, USN
5  *       LCDR ROBERT J. BRADO, USN
6  *       LCDR ROBERT L. BEARD III, SC, USN
7  *
8  * PURPOSE : TO PROVIDE A SHORT DELAY AFTER THE DISPLAY OF AN
9  *       ERROR MESSAGE TO THE USER SUFFICIENT TIME TO READ
10  *       THE MESSAGE.
11  *
12  * INPUT FILES : NONE
13  *
14  * OUTPUT FILES : NONE
15  *
16  * CALLED BY : SELECTOR.PRG, MAINMENU.PRG, CONFREV.PRG, CONFUPD.PRG
17  *
18  * LOCAL VARIABLES: DELAY
19  *
20  * DATE LAST TIME MODIFIED =========== 18 DECEMBER 1985 ===========
21  *
22  STORE 1 TO DELAY
23  DO WHILE DELAY < 60
24  
25  STORE DELAY + 1 TO DELAY
26  ENDDO DELAY < 60
27  *
28  * CLEAR OUT THE ERROR MESSAGE
29  *
30  SET COLOR TO W+/B, W+/B
31  @ 24,0 SAY SPACE (80)
32  *
33  * RETURN TO THE CALLING PROGRAM
34  *
35  RETURN

***********************************************************************
* PROCEDURE DESPMOD.PRG

* AUTHORS
  LCDR EDWARD J. CASE, SC, USN
  LCDR WINSTON H. BUCKLEY, SC, USN
  LCDR ROBERT F. BRADY, USN
  LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE
  PROVIDE THE USER THE OPPORTUNITY TO MODIFY OR REVIEW
  ALL DATA IN THE DESCRIPTION DATABASE.

* INPUT FILES
  NONE

* OUTPUT FILE
  NONE

* CALLED BY
  MAINMENU.PRG

* MODULES CALLED:
  DESPPUPD.PRG, DESPPREV.PRG, DELAY.PRG

* LOCAL VARIABLES: SELECT

* DATE LAST TIME MODIFIED
  22 DECEMBER 1985

* DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE
  SELECTION.

* STORE "1" TO SELECT
* DO WHILE SELECT <> "3"
  SET COLOR TO W/B, W/B
  CLEAR
  ?? FLASH "W,DESPMOD/"
  SET CONSOLE OFF
  WAIT TO SELECT
  SET CONSOLE ON

* PROCESS ROUTINE BASED ON THE USER'S SELECTION.

* DO CASE

  * CALL THE DESCRIPTION UPDATE PROGRAM.
    CASE SELECT = "1"
    DO DESPPUPD

  * CALL THE DESCRIPTION REVIEW PROGRAM.
    CASE SELECT = "2"
    DO DESPPREV

  * RETURN TO THE MAIN MENU PROGRAM.
    CASE SELECT = "3"

  ENDCASE
**DESPMOD.PRG Program Listing**

51  *
52  ENDDO (WHILE SELEKT = "3")
53  *
54  * RETURN TO THE CALLING PROGRAM
55  *
56  RETURN
57  ******************************************************************************
APPENDIX B: MAINTENANCE MANUAL

DESPPREV.PRG Program Listing

* PROCEDURE DESPPREV.PRG
* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN
* PURPOSE : TO ENABLE THE USER TO REVIEW ANY DATA ELEMENT IN
* THE DESCRIPTION DATABASE.
* INPUT FILES : DESCRIP.DBF INDICES: DESCRIP.NDX
* OUTPUT FILES : DESCRIP.DBF, INDICES: DESCRIP.NDX
* MODULES CALLED : DELAY.PRG
* CALLED BY : DESPMOD.PRG
* GLOBAL VARIABLE: LOFNUM, HIFNUM
* LOCAL VARIABLES: ACCEPT, ANS, CHOICE, ERROR, FIRSTREC, IAST
* MBMAINT, MCLIN, MDESCRIP, MESSAGE, MFICXJODL, MFEAT, MMODELNO, MTCOMP
* DATE LAST TIME MODIFIED = 23 DECEMBER 1985
*
* BEGIN
* CASE SELECTION = 2 REVIEW EXISTING RECORDS
* USE DESCRIPTION DATABASE USING THE FEATURE NUMBER INDEX.
* SET ESCAPE OFF
* SET TALK OFF
* USE DESCRIP
* GO TOP
* SET COLOR TO W+/B, W+/B, B
* CLEAR
* IF EOF() = .T. THEN
* SET COLOR TO W+B, W+B
* 13,17 SAY "The EQUIPMENT DESCRIPTION Database is EMPTY!"
* GO DELAY
* RETURN
* ENDIF
* ?? FLASH + "S.DESCRIP.SCR/"
* 24,0 SAY SPACE(80)
* 2,39 SAY "REVIEW"
* STORE ' Enter 00 to start at TOF, 99 to start at EOF, or a six digit'
* 'feature number' TO MESSAGE
* SET COLOR TO /W, /W
* 24,9 SAY MESSAGE
51  DO WHILE .T.
52     SET COLOR TO /BR, /BR
53     STORE '00' TO MFEAT
54  @ 6,45 GET MFEAT PICT '999999'
55  READ
56     IF .NOT. ((MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM) .OR.;
57         MFEAT = '00' .OR. MFEAT = '99')
58         SET COLOR TO W/B, W/B
59  @ 24,0 SAY SPACE(80)
60     SET COLOR TO W+/R, W+/R
61     STORE 'Response must be between ' + LOFNUM +' and '+'
62         HIFNUM +', Zero (00) or 99' TO ERROR
63  @ 24,8 SAY ERROR
64     DO DELAY
65     SET COLOR TO /W, /W
66  @ 24,0 SAY MESSAGE
67     LOOP
68   ELSE
69     IF (MFEAT = '00' .OR. MFEAT = '99') THEN
70       USE DESCRIP
71       IF MFEAT = '00' THEN
72           G0 BOTTOM
73       STORE RECNO() TO LAST_REC
74       G0 TOP
75       STORE RECNO() TO FIRST_REC
76       ELSE
77       IF MFEAT = '99' THEN
78           G0 TOP
79       STORE RECNO() TO FIRST_REC
80       G0 BOTTOM
81       STORE RECNO() TO LAST_REC
82       ENDIF MFEAT = '99'
83       ENDIF MFEAT = '00'
84       STORE FEATURENO TO MFEAT
85       EXIT
86   ELSE
87       USE DESCRIP INDEX DESCRIP.NDX
88       G0 BOTTOM
89       STORE RECNO() TO FIRST_REC
90       G0 TOP
91       STORE RECNO() TO LAST_REC
92       FIND &MFEAT
93       IF EOF() = .T. THEN
94           SET COLOR TO W/B, W/B
95  @ 24,0 SAY SPACE(80)
96           SET COLOR TO W+/R, W+/R
97           STORE 'No record exists for feature number ' +
98               MFEAT +', try again ' TO ERROR
99  @ 24,12 SAY ERROR
100      DO DELAY
APPENDIX B: MAINTENANCE MANUAL

Page 3 DESPPREV.PRG Program Listing

101 SET COLOR TO /W, /W
102 @ 24,0 SAY MESSAGE
103 LOOP
104 ELSE
105 EXIT
106ENDIF EOF() = .T.
107ENDIF (MFEAT = '00' .OR. MFEAT = '99')
108ENDIF
109 ENDDO WHILE .T.
110*
111SET COLOR TO W/B, W/B
112@ 24,0 SAY SPACE (80)
113@ 20,20 SAY "To view this field, enter the update mode."
114DO WHILE .T.
115 SET COLOR TO R+/B, R+/B
116@ 4,46 SAY RECO() PICT "99999"
117 SET COLOR TO /BR, /BR
118@ 6,45 SAY FEATURE PICT "999999"
119@ 8,45 SAY CLIN PICT "999"
120@ 10,45 SAY DESCRIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
121@ 12,45 SAY MODELNO PICT "!!!!!!!!!!!!"!
122@ 14,45 SAY FOCMODEL PICT "!!!!!!!!!!!!!!"
123@ 16,45 SAY TYPECOMPON PICT "!
124@ 18,45 SAY BASEMAINT PICT "9999.99"
125 SET COLOR TO R+/B, R+/B
126 STORE "N" TO CHOICE
127@ 22,67 GET CHOICE PICT "!
128 READ
129*
130 ENSURE THAT THE USER'S PROMPT IS EITHER "N", "P" OR "X"
131*
132DO WHILE .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X")
133 IF .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X") THEN
134 SET COLOR TO W+/R, W+/R
135@ 24,23 SAY "Response must be either N, P or X"
136 DO DELAY
137 STORE "N" TO CHOICE
138ENDIF
139 SET COLOR TO R+/B, R+/B
140@ 22,67 GET CHOICE PICT "!
141 READ
142ENDO
143*
144 SKIP TO THE NEXT RECORD TO BE REVIEWED
145*
146 IF CHOICE = "N" THEN
147 IF RECO() = LAST.REC THEN
148GO TO TOP
149ELSE
150SKIP
DESPPREV.PRG Program Listing

151  ENDIF
152  ENDIF
153  *
154  * TO THE PREVIOUS RECORD TO BE REVIEWED
155  *
156  IF CHOICE = "P" THEN
157     IF RECNO() = FIRST_REC THEN
158         GO BOTTOM
159     ELSE
160         SKIP -1
161  ENDIF
162  ENDIF
163  *
164  * USER HAS DECIDED TO EXIT THE REVIEW
165  *
166  IF CHOICE = "X" THEN
167     EXIT
168  ENDIF
169 ENDDO WHILE .T.
170 *
171 * RETURN TO CALLING PROGRAM.
172 *
173 RELEASE ALL LIKE M*, CHOICE, ERROR, FIRST_REC, LAST_REC
174 CLOSE DATABASES
175 RETURN
176*******************************************************************************
PROCEDURE DESPPUPD.PRG

AUTHORS:
LCDR EDWARD J. CASE, SC, USN
LCDR WINSTON H. BUCKLEY, SC, USN
LCDR ROBERT P. BRADO, USN
LCDR ROBERT L. BEARD III, SC, USN

PURPOSE: TO ENABLE THE USER TO MODIFY ANY DATA ELEMENT IN
THE DESCRIPTION DATABASE.

INPUT FILES: DESCRIP.DBF INDICES: DESCRIP.NDX
OUTPUT FILES: DESCRIP.DBF, INDICES: DESCRIP.NDX

MODULES CALLED: DELAY.PRG
CALLED BY: DESPPUPD.PRG

GLOBAL VARIABLE: LOFNUM, HIFNUM
LOCAL VARIABLES: ACCEPT, ANS, CHOICE, ERROR, INTRO, MBMAINT, MCLIN,
MDESCRIP, MESSAGE, MFDCMODL, MFEAT, MMODELNO, MCOMP

DATE LAST TIME MODIFIED: 23 DECEMBER 1985

BEGIN
CASE SELECTION = 1
UPDATE EXISTING RECORDS

SET ESCAPE OFF
SET TALK OFF
USE DESCRIP
GO TOP
SET COLOR TO W+/B, W+/B, B
CLEAR
IF EOF() = .T. THEN
SET COLOR TO W+/R, W+/R
@ 13,17 SAY "The EQUIPMENT DESCRIPTION Database is EMPTY!"
DO DELAY
RETURN
ENDIF
?? FLASH "S.DESCRIPT.SCR/"
@ 24,0 SAY SPACE(80)
@ 2,39 SAY "UPDATE"
STORE ' Enter 00 to start at TOF, 99 to start at EOF, or a six digit '+'
feature number ' TO MESSAGE
SET COLOR TO /W, /W
@ 24,0 SAY MESSAGE
DO WHILE .T.
APPENDIX B: MAINTENANCE MANUAL

Page 2

DESPUPD.PRG Program Listing

51 SET COLOR TO /BR, /BR
52 STORE '00 ' TO MFEAT
53 @ 6,45 GET MFEAT PICT '99999'
54 READ
55 IF .NOT. ((MFEAT >= LOFNUM AND MFEAT <= HIFNUM) .OR.;
56 MFEAT = '00 ' .OR. MFEAT = '99 ')
57 SET COLOR TO W/B, W/B
58 @ 24,0 SAY SPACE(80)
59 SET COLOR TO W+/R, W+/R
60 STORE ' Response must be between ' + LOFNUM + ' and ' +;
61 HIFNUM + ', Zero (00) or 99 ' TO ERROR
62 @ 24,8 SAY ERROR
63 DO DELAY
64 SET COLOR TO /W, /W
65 @ 24,0 SAY MESSAGE
66 LOOP
67 ELSE
68 IF (MFEAT = '00 ' .OR. MFEAT = '99 ' ) THEN
69 USE DESCRIP
70 IF MFEAT = '00 ' THEN
71 GO BOTTOM
72 STORE RECNO() TO LAST_REC
73 GO TOP
74 STORE RECNO() TO FIRST_REC
75 ELSE
76 IF MFEAT = '99 ' THEN
77 GO TOP
78 STORE RECNO() TO FIRST_REC
79 GO BOTTOM
80 STORE RECNO() TO LAST_REC
81 ENDIF MFEAT = '99 ' ' 
82 ENDIF MFEAT = '00 ' 
83 STORE FEATURENO TO MFEAT
84 EXIT
85 ELSE
86 USE DESCRIP INDEX DESCRIP.NDX
87 GO TOP
88 STORE RECNO() TO FIRST_REC
89 GO BOTTOM
90 STORE RECNO() TO LAST_REC
91 FIND MFEAT
92 IF EXP( ) = .T. THEN
93 SET COLOR TO W/B, W/B
94 @ 24,0 SAY SPACE(80)
95 SET COLOR TO W+/R, W+/R
96 STORE ' No record exists for feature number ' +;
97 MFEAT + ', try again ' TO ERROR
98 @ 24,12 SAY ERROR
99 DO DELAY
100 SET COLOR TO /W, /W
101 @ 24,0 SAY MESSAGE
102 LOOP
103 ELSE
104 EXIT
105 ENDIF EOF() = .T.
106 ENDIF (MFEAT = '00' .OR. MFEAT = '99')
107 ENDIF
108 ENDDO WHILE .T.
109 *
110 STORE SPACE(16) + 'Press "Page Down" key to terminate record update' ;
111 SPACE(16) TO MESSAGE
112 STORE 1 TO INTRO
113 DO WHILE .T.
114 *
115 * INFORM THE USER OF HOW TO TERMINATE THE UPDATE OF A RECORD
116 *
117 IF INTRO = 1 THEN
118 STORE 0 TO INTRO
119 ?? FLASH + "W.DESPPUPD/"
120 SET CONSOLE OFF
121 WAIT TO ANS
122 SET CONSOLE ON
123 ENDIF
124 *
125 * STORING THE OLD RECORD TO A WORK RECORD AREA. THE M PREFIX
126 * INDICATES MEMORY VARIABLES DISTINGUISHING THEM FROM THEIR
127 * CORRESPONDING DATABASE FIELDS.
128 *
129 STORE FEATURENO TO MFEAT
130 STORE CLIN TO MCLIN
131 STORE DESCRPT TO MDESCRIP
132 STORE MODELNO TO MMODEL
133 STORE FDCMODEL TO MFDCMDL
134 STORE TYPECOMPON TO MIMCOMP
135 STORE BASEMAINT TO MBMAINT
136 SET COLOR TO R+/B, R+/B
137 @ 4,46 SAY RECNO() PICT "99999"
138 SET COLOR TO /W, /W
139 @ 6,45 SAY MFEAT PICT "99999"
140 @ 8,45 GET MCLIN PICT "9999"
141 @ 10,45 GET MDESCRIP PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"
142 @ 12,45 GET MMODELNO PICT "!!!!!!!!!!!"
143 @ 14,45 GET MFDCMDL PICT "!!!!!!!!!!!"
144 @ 16,45 GET MIMCOMP PICT "!
145 @ 18,45 GET MBMAINT PICT "9999.99"
146 READ
147 *
SET COLOR TO W/B, W/B
@ 24,0 SAY SPACE(80)

* ASK THE USER IF HE/SHE DESIRES TO ACCEPT THE CHANGES, ONLY IF ANY
CHANGES WERE MADE

* IF .NOT. (FEATURENO=MFEAT .AND. CLIN=MCLIN .AND. DESCIPT=MDESCRIP .AND.;
MODELNO=MMODELNO .AND. FDCMODEL=MFDCMODL .AND. TYPECOMP=;
MTCOMP .AND. BASEMAINT=MBMAINT) THEN
SET COLOR TO W+/R,W+/R
@ 21,10 SAY SPACE(55)
@ 21,12 SAY "Do you want to accept the changes? (Yes or No):"
SET COLOR TO R+/R,R+/R
@ 21,49 SAY "Y"
@ 21,56 SAY "N"
STORE "N" TO ACCEPT
@ 21,62 GET ACCEPT PICT "!"
READ

ENSURE THAT THE USER'S PROMPT IS EITHER "Y" OR "N"

DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
   IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
      SET COLOR TO W/B, W/B
      @ 24,0 SAY SPACE(80)
      SET COLOR TO W+/R,W+/R
      @ 24,24 SAY "Response must be either N or Y"
      DO DELAY
      STORE "N" TO ACCEPT
      SET COLOR TO /W, /W
      @ 24,0 SAY MESSAGE
   ENDIF
      SET COLOR TO R+/R,R+/R
      @ 21,62 GET ACCEPT PICT "!"
      READ
      ENDDO
SET COLOR TO W+/B, W+/B
@ 21,10 SAY SPACE (60)

STORING THE CORRECTED EDIT FIELDS FROM THE WORK AREA.

IF ACCEPT = "Y" THEN
   REPLACE FEATURENO WITH MFEAT
   REPLACE CLIN WITH MCLIN
   REPLACE DESCIPT WITH MDESCRIP
   REPLACE MODELNO WITH MMODELNO
   REPLACE FDCMODEL WITH MFDCMODL
   REPLACE TYPECOMP WITH MTCOMP
   REPLACE BASEMAINT WITH MBMAINT
ENDIF
APPENDIX B: MAINTENANCE MANUAL

Page 5

DESPUPD.PRG Program Listing

201   ENDF
202 *
203   SET COLOR TO W/B, W/B
204   @ 21,10 SAY SPACE (55)
205 *
206   * ASK THE USER IF HE/SHE DESIRES TO CHANGE THE NOTES FIELD
207 *
208   SET COLOR TO W+/B, W+/B
209   @ 20,18 SAY "Edit the NOTES field? (Yes or No):"
210   SET COLOR TO R+/B, R+/B
211   @ 20,42 SAY "Y"
212   @ 20,49 SAY "N"
213   STORE "N" TO ACCEPT
214   @ 20,54 GET ACCEPT PICT ":"
215   READ
216 *
217   * ENSURE THAT THE USER'S PROMPT IS EITHER "Y" OR "N"
218 *
219   DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
220       IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
221           SET COLOR TO W/B, W/B
222           @ 24,0 SAY SPACE(80)
223           SET COLOR TO W+/R, W+/R
224           @ 24,24 SAY "Response must be either N or Y"
225           DO DELAY
226           STORE "N" TO ACCEPT
227           SET COLOR TO /W, /W
228           @ 24,0 SAY MESSAGE
229       ENDF
230   SET COLOR TO R+/B, R+/B
231   @ 20,54 GET ACCEPT PICT ":"
232   READ
233 *
234   IF ACCEPT = "Y" THEN
235       ?? FLASH + "W.NOTES/"
236       SET CONSOLE OFF
237       WAIT TO ANSI
238       SET CONSOLE ON
239       CHANGE FIELDS NOTES
240       SET COLOR TO W+/B, W+/B, B
241       CLEAR
242       ?? FLASH + "S.DESCRIPT.SCRIPT/"
243       @ 24,0 SAY SPACE(80)
244       SET COLOR TO W+/B, W+/B
245       @ 2,39 SAY "UPDATE"
246       SET COLOR TO R+/B, R+/B
247       @ 4,46 SAY RECO momentum PICT "999999"
248       SET COLOR TO /IR, /IR
249       @ 6,45 SAY MESSAGES PICT "999999"
264
APPENDIX B: MAINTENANCE MANUAL

DESPPUPD.PRG Program Listing

251 @ 8,45 SAY MCLIN PICT "9999"
252 @ 10,45 SAY MDESCRIP PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!"
253 @ 12,45 SAY MMODELNO PICT """""""
254 @ 14,45 SAY MDCMODL PICT "!!!!!!!!!!!!!"
255 @ 16,45 SAY MDCOMP PICT "!"
256 @ 18,45 SAY MEMAINT PICT "9999.99"
257 ENDIF
258 * SET COLOR TO W/B, W/B
259 @ 20,18 SAY SPACE (50)
260 SET COLOR TO R+/B, R+/B
261 STORE "N" TO CHOICE
262 @ 22,67 GET CHOICE PICT "."
263 READ
264 * ENSURE THAT THE USER'S PROMPT IS EITHER "N", "P" OR "X"
265 * DO WHILE .NOT. (CHOICE = "N". OR. CHOICE = "P". OR. CHOICE = "X")
266 IF .NOT. (CHOICE = "N". OR. CHOICE = "P". OR. CHOICE = "X") THEN
267 SET COLOR TO W/B, W/B
268 @ 24,0 SAY SPACE (80)
269 SET COLOR TO W+/R, W+/R
270 @ 24,23 SAY " Response must be either N, P or X "
271 DO DELAY
272 STORE "N" TO CHOICE
273 ENDIF
274 SET COLOR TO R+/B, R+/B
275 @ 22,67 GET CHOICE PICT "."
276 READ
277 * SKIP TO THE NEXT RECORD TO BE REVIEWED
278 * IF CHOICE = "N" THEN
279 IF RECNO() = LAST_REC THEN
280 GO TOP
281 ELSE
282 SKIP
283 ENDIF
284 * SKIP TO THE PREVIOUS RECORD TO BE REVIEWED
285 * IF CHOICE = "P" THEN
286 IF RECNO() = FIRST_REC THEN
287 GO BOTTOM
288 ELSE
289 SKIP -1
290 ENDIF
291 * ENDIF
292 * ENDDO
293 * ENDIF
294 * ENDIF
295 * ENDIF
296 * ENDIF
297 * ENDIF
298 * ENDIF
299 * ENDIF
300 * ENDIF
HAS DECIDED TO EXIT THE REVIEW

IF CHOICE = "X"

EXIT

ENDIF

ENDDO WHILE .T.

RETURN

RELEASE ALL LIKE * , ACCEPT, ANS, CHOICE, ERROR, INTRO

CLOSE DATABASES

RETURN

--------------------------------------------------------------------------------
* PROCEDURE EQPDTNPC.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN
* PURPOSE : PROVIDE THE USER A SPLICE EQUIPMENT DELIVERY ORDER DATE LEVEL REPORT WITHOUT UNIT COSTS.
* INPUT FILES : EQUIP.DBF, EQUIPSD.NDX, DESCRIP.DBF, DESCRIP.NDX, EQUIPSIT.NDX
* OUTPUT FILES : TEMPONE.DBF, TEMPONE.NDX
* MODULES CALLED : DELAY.PRG

GLOBVAR HIDATE, HISITE, LWDNE, L)SITE
LOCAL ACCEPT, CHOICE, COLCNT, ERROR, LINECI, MKEY, MNEWDIE, MOLDATE, MSITE, PAGENO, SYSDATE, TODAY, TODATE

DATE LAST TIME MODIFIED = 27 DECEMBER 1985

CASE SELECTION = 1 EQUIPMENT EFFECTIVE DELIVERY ORDER REPORT
WITHOUT UNIT COST

CALL EQUIPMENT DATABASE INDEXED ON SITE NUMBER. DISPLAY ALL EFFECTIVE DATES OF DELIVERY ORDERS FOR THE USER TO SELECT FROM.
CALL EQUIPMENT DATABASE INDEXED ON EFFECTIVE DELIVERY ORDER DATE AND SITE NUMBER. COPY APPLICABLE RECORDS TO TEMPONE, INDEXED ON FEATURE NUMBER. RELATE TO DESCRIPTION FILE.

SET ESCAPE OFF
SET TALK OFF
SET COLOR TO W+/B, W+/D, B
CLEAR
USE EQUIP
GO TOP
IF EOF() = .T. THEN
   SET COLOR TO W+/R, W+/R
   @ 13,24 SAY " The EQUIPMENT Database is EMPTY! "
   DO DELAY
   RETURN
ENDIF
?? FLASH + "S.REPORTS.SCR"
@ 24,0 SAY SPACE(80)
SET COLOR TO R+/ , R+/D
@ 2,25 SAY " DELIVERY ORDER LEVEL REPORT "

267
Page 2

EQPDPNPC.PRG Program Listing

51 SET COLOR TO W+/BR, W+/BR
52 @ 13,15 SAY "Enter site number for which the report is desired:"
53 *
54 * ENSURE THAT TEMPORARY DATABASE AND INDEX DO NOT EXIST, IF SO ERASE THEM
55 *
56 SET CONSOLE OFF
57 ERASE TEMPONE.DBF
58 ERASE TEMPONE.NDX
59 SET CONSOLE ON
60 USE EQUIP INDEX EQUIPSIT
61 *
62 DO WHILE .T.
63 SET COLOR TO /BR, /BR
64 STORE LOSITE TO MSITE
65 @ 13,66 GET MSITE PICT '99'
66 READ
67 IF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
68 SET COLOR TO W+/R, W+/R
69 STORE ' Response must be between ' + LOSITE + ;
70 ' and ' + HISITE + ' TO ERROR
71 @ 24,22 SAY ERROR
72 DO DELAY
73 LOOP
74 ELSE
75 GO TOP
76 FIND &MSITE
77 IF EOF() = .T. THEN
78 STORE " No equipment exists for site " + MSITE + ;
79 " try another site " TO MESSAGE
80 SET COLOR TO W+/R, W+/R
81 @ 24,15 SAY MESSAGE
82 DO DELAY
83 LOOP
84 ELSE
85 EXIT
86 ENDIF EOF() = .T.
87 ENDIF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
88 ENDWHILE .T.
89 *
90 SET COLOR TO W+/BR, W+/BR
91 @ 13,15 SAY SPACE(60)
92 *
93 SET COLOR TO W+/B, W+/B
94 @ 05,09 SAY " The following Delivery Order Effective Dates exist for Site"
95 @ 05,60 SAY MSITE
96 SET COLOR TO /BR, /BR
97 @ 13,05 SAY SPACE(70)
98 STORE 1 TO LINEXT
99 STORE 1,00 TO COLCNT
100 STORE "000000" TO MOLWRO.
DO WHILE SITENO = MSITE
  IF (COLCNT - (COLCNT * (COLCNT/3)) = 0.00) THEN
    @LINECT+6,57 SAY EFFDATE
  ELSE IF (COLCNT - (COLCNT * (COLCNT/2)) = 0.00) THEN
    @LINECT+6,38 SAY EFFDATE
  ELSE
    @LINECT+6,19 SAY EFFDATE
  ENDIF
  ENDIF (COLCNT - (COLCNT * (COLCNT/3)) = 0.00)
ENDDO

DO WHILE ((EFFDATE = MOLDATE).AND. NOT. EOF())
  SKIP+2
ENDDO

IF EOF() THEN
  EXIT
ELSE
  SKIP
ENDIF EOF() = .T.

ENDDO WHILE SITENO = MSITE

STORE DIOC(DATE()) TO SYSDATE
STORE SUBSTR(SYSDATE,7,2) + SUBSTR(SYSDATE,1,2) *;
STORE SUBSTR(SYSDATE,4,2) TO MOLDATE
STORE SPACE(17) + 'Input Effective Date (Range ' + MOLDATE + ' to ' + HDFDATE + ') + SPACE(17) TO MESSAGE
SET COLOR TO /W, /W
@ 24,0 SAY MESSAGE
SET COLOR TO W+/B, W+/B
@ 3,29 SAY "EFFECTIVE DATE: "

USE EQUP INDEX EQUIPSD.NDX
STORE "000000" TO MOLDATE

DO WHILE .NOT. (MOLDATE >= HDFDATE .AND. MOLDATE <= HIDLATE)
  STORE MOLDATE TO MOLDATE
  SET COLOR TO R+/B, R+/B
  @ 3,45 GET MOLDATE PICT "999999"
  READ
  DO WHILE .T.
    IF .NOT. (SUBSTR(MOLDATE,1,2) > "83" .AND. ;

269
SUBSTR(MOLDATE,1,2) =< "99") THEN
  SET COLOR TO W/B, W/B
  @ 24,0 SAY SPACE(80)
  SET COLOR TO W+/R, W+/R
  @ 24,16 SAY " Year portion of date must be between 84 and 99 "
  DO DELAY
  SET COLOR TO /W, /W
  @ 24,0 SAY MESSAGE
  STORE SUBSTR(MDATE,1,2) TO MYEAR
  SET COLOR TO R+/B, R+/B
  @ 3,45 GET MYEAR PICT "99"
  READ
  STORE MYEAR + SUBSTR(MOLDATE,3,4) TO MOLDATE
ELSE
  EXIT
ENDIF
ENDDO WHILE .T.
DO WHILE .T.
  IF .NOT. (SUBSTR(MOLDATE,3,2) = "01" .AND.;
    SUBSTR(MOLDATE,3,2) = "12") THEN
    SET COLOR TO W/B, W/B
    @ 24,0 SAY SPACE(80)
    SET COLOR TO W+/R, W+/R
    @ 24,16 SAY " Month portion of date must be between 01 and 12 "
    DO DELAY
    SET COLOR TO /W, /W
    @ 24,0 SAY MESSAGE
    STORE SUBSTR(MDATE,3,2) TO MMNTH
    SET COLOR TO R+/B, R+/B
    @ 3,47 GET MMNTH PICT "99"
    READ
    STORE SUBSTR(MOLDATE,1,2) + MMNTH +;
    SUBSTR(MOLDATE,5,2) TO MOLDATE
ELSE
  EXIT
ENDIF
ENDDO WHILE .T.
DO WHILE .T.
  IF ((SUBSTR(MOLDATE,3,2) = "04" .OR. SUBSTR(MOLDATE,3,2) = "06" .AND.;
    SUBSTR(MOLDATE,3,2) = "09" .OR. SUBSTR(MOLDATE,3,2) = "11") .AND.;
    .NOT. (SUBSTR(MOLDATE,5,2) <= "50") THEN
    SET COLOR TO W/B, W/B
    @ 24,0 SAY SPACE(80)
    SET COLOR TO W+/R, W+/R
    @ 24,16 SAY " Day portion of date must be between 01 and 30 "
    DO DELAY
    SET COLOR TO /W, /W
APPENDIX B: MAINTENANCE MANUAL  Page 134

Page 5  EQPDNPC.PRG Program Listing

201 @ 24,0 SAY MESSAGE
202 STORE SUBSTR(MDATE,5,2) TO MDAY
203 SET COLOR TO R+/B, R+B
204 @ 3,49 GET MDAY PICT "99"
205 READ
206 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
207 LOOP
208 ELSE
209
210 * IF (SUBSTR(MOLDATE,3,2) = "02" .AND. .NOT.;
211 (SUBSTR(MOLDATE,5,2) >= "01" .AND.
212 SUBSTR(MOLDATE,5,2) <= "28") THEN
213 SET COLOR TO W/B, W/B
214 @ 24,0 SAY SPACE(80)
215 SET COLOR TO W+/R, W+/R
216 @ 24,16 SAY "Day portion of date must be between 01 and 28"
217 DO DELAY
218 SET COLOR TO /W, /W
219 @ 24,0 SAY MESSAGE
220 STORE SUBSTR(MDATE,5,2) TO MDAY
221 SET COLOR TO R+/B, R+B
222 @ 3,49 GET MDAY PICT "99"
223 READ
224 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
225 LOOP
226 ELSE
227 *
228 IF .NOT. (SUBSTR(MOLDATE,5,2) >= "01" .AND.
229 SUBSTR(MOLDATE,5,2) <= "31") THEN
230 SET COLOR TO W/B, W/B
231 @ 24,0 SAY SPACE(80)
232 SET COLOR TO W+/R, W+/R
233 @ 24,16 SAY "Day portion of date must be between 01 and 31"
234 DO DELAY
235 SET COLOR TO /W, /W
236 @ 24,0 SAY MESSAGE
237 STORE SUBSTR(MDATE,5,2) TO MDAY
238 SET COLOR TO R+/B, R+B
239 @ 3,49 GET MDAY PICT "99"
240 READ
241 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
242 LOOP
243 ELSE
244 EXIT
245 ENDIF
246 ENDIF
247 ENDIF
248 ENDUO WHILE .T.
249 *
250 GO TOP
FIND &MOLDATE
IF EOF() = .T. THEN
SET COLOR TO W/B, W/B
@ 24,0 SAY SPACE(80)
STORE "EFFECTIVE DATE " + MOLDATE + " does not exist for site " +;
MSITE + ", try another " TO NODATE
SET COLOR TO W+/R, W+/R
@ 24,06 SAY NODATE
DO DELAY
SET COLOR TO /W, /W
@ 24,0 SAY MESSAGE
STORE "000000" TO MOLDATE
LOOP
ENDIF EOF() = .T.
ENDDO WHILE .NOT. (MOLDATE >= LODEATE .AND. MOLDATE <= HIDEATE)
*
SET COLOR TO /BR, /BR
@ 07,2 SAY SPACE(76)
@ 08,2 SAY SPACE(76)
@ 09,2 SAY SPACE(76)
@ 10,2 SAY SPACE(76)
@ 11,2 SAY SPACE(76)
@ 12,2 SAY SPACE(76)
@ 13,2 SAY SPACE(76)
@ 14,2 SAY SPACE(76)
@ 15,2 SAY SPACE(76)
@ 16,2 SAY SPACE(76)
@ 17,2 SAY SPACE(76)
@ 18,2 SAY SPACE(76)
@ 19,2 SAY SPACE(76)
@ 20,2 SAY SPACE(76)
@ 21,2 SAY SPACE(76)
*
SET COLOR TO R+/, R+/
@ 13,18 SAY "CREATING TEMPORARY DATABASE AND INDEX FILE"
STORE "MOLDATE" + "MSITE" TO MKEY
GO TOP
FIND &MKEY
*
COPY TO TEMPONE FOR SITENO = "MSITE" .AND. EFFDATE = "MOLDATE"
SELECT 1
USE TEMPONE
INDEX ON FEATURENO TO TEMPONE
SELECT 2
USE DESCRIP INDEX DESCRIP
SELECT TEMPONE
SET RELATION TO FEATURENO INTO DESCRIP
GO TOP

* CREATE THE SPLICE EQUIPMENT PROJECT REPORT AND CHECK IF THE REPORT
* IS TO BE PRINTED OR DISPLAYED ON THE SCREEN.

SET COLOR TO W+/BR, W+/BR
@ 13,15 SAY SPACE(60)
@ 13,16 SAY "Do you want a printed report? (Yes or No): "
SET COLOR TO /BR, /BR
@ 13,49 SAY "Y"
@ 13,56 SAY "N"
STORE "N" TO ACCEPT
@ 13,62 GET ACCEPT PICT ":"
READ

* ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"

DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
  IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
    SET COLOR TO W+/R, W+/R
    @ 24,24 SAY "Response must be either N or Y"
    DO DELAY
    STORE "N" TO ACCEPT
  ENDIF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
  SET COLOR TO /BR, /BR
  @ 13,62 GET ACCEPT PICT ":"
  READ
ENDDO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")

SET COLOR TO /BR, /BR
@ 13,15 SAY SPACE(55)

IF ACCEPT = "Y" THEN
  ?? FLASH "W.PRINTER/
  SET CONSOLE OFF
  WAIT TO CHOICE
  SET CONSOLE ON
  SET COLOR TO W/B, W/B
  @ 22,10 SAY SPACE(65)
  STORE ULOC(DATE()) TO TODAY
  STORE SUBSTR(TODAY,4,2) + " " + MONTH(DATE()) + " 19" +
  SUBSTR(TODAY,7,2) TO TODATE
  STORE 0 TO PAGENO
  STORE 61 TO LINECT
  SET (COLOR "R") R/ , R/.
  SET DEVICE TO PRINT

*
APPENDIX B: MAINTENANCE MANUAL

EQPDINPC.PRG Program Listing

351  DO WHILE .NOT. EOF()
352     DO WHILE (LINECT <= 60 .AND. .NOT. EOF())
353        @ LINECT, 3 SAY SITENO PICT "99"
354        @ LINECT, 9 SAY B->CLIN PICT "9999"
355        @ LINECT,17 SAY FEATURENO PICT "999999"
356        @ LINECT,28 SAY B->DESCRIPT PICT "!!!!!!!!!!!!!!!!!!!!!!"
357        @ LINECT,60 SAY QTY PICT "999"
358        @ LINECT,67 SAY B->FDODEL PICT "!!!!!!!!!!"
359     LINECT = LINECT + 1
360  END DO WHILE (LINECT <= 60 .AND. .NOT. EOF())
361  *  
362  IF EOF() = .T. THEN
363     IF PAGENO > 1 THEN
364         @ 62,37 SAY "Page " + STR(PAGENO, 2,0)
365     ENDIF PAGENO > 1
366     EJECT
367     SET DEVICE TO SCREEN
368     @ 13,25 SAY "FINISHED PRINTING THE REPORT"
369     DO DELAY
370     EXIT
371 ELSE
372     SET DEVICE TO SCREEN
373     @ 13,27 SAY "Printing Page Number " + STR(PAGENO + 1, 2,0) + ""
374     SET DEVICE TO PRINT
375     ENDIF EOF() = .T.
376  *  
377  IF (LINECT > 60 .AND. PAGENO > 1) THEN
378     @ 62,37 SAY "Page " + STR(PAGENO, 2,0)
379     ENDIF (LINECT > 60 .AND. PAGENO > 1)
380     @ 2,25 SAY "DEALIVERY ORDER LEVEL REPORT"
381     @ 3,29 SAY "EFFECTIVE DATE:"
382     @ 3,45 SAY MOLDATE
383     @ 4,60 SAY TODATE
384     @ 6,2 SAY "SITE CLIN FEATURE# DESCRIPTION"
385     @ 6,60 SAY "QTY MODEL NUMBER"
386     @ 7,2 SAY "="
387     @ 7,51 SAY "="
388     PAGENO = PAGENO + 1
389     STORE 0 TO LINECT
390  *  
391  END DO WHILE .NOT. EOF()
392 ELSE
393     SET COLOR TO GR+/B, GR+/B
394     @ 5,2 SAY "SITE CLIN FEATURE# DESCRIPTION"
395     @ 5,60 SAY "QTY MODEL NUMBER"
396     SET COLOR TO /BR, /BR
397     STORE 0 TO LINECT
398  *  
399  END DO WHILE .NOT. EOF()
400
APPENDIX B: MAINTENANCE MANUAL

Page 138

EQPDINPC.PRG Program Listing

Page 9

EQPDINPC.PRG Program Listing

DO WHILE LINECT < 15
   @ LINECT+7,3 SAY SITENO PICT "99"
   @ LINECT+7,9 SAY B-CLIN PICT "9999"
   @ LINECT+7,17 SAY FEATURENO PICT "999999"
   @ LINECT+7,28 SAY B->DESCRIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
   @ LINECT+7,60 SAY QCY PICT "999"
   @ LINECT+7,67 SAY B->FDCMODEL PICT "!!!!!!!!!!"
   LINECT = LINECT + 1
   SKIP
   IF EOF() = .T. THEN
      SET COLOR TO W+/R, W+/R
      @ 24,18 SAY " End of File reached, Press any key to EXIT "
      SET CONSOLE OFF
      WAIT TO ACCEPT
      SET CONSOLE ON
      EXIT
      ENDF EOF() = .T.
   ENDDO WHILE LINEC? < 15

* IF EOF() = .T. THEN
   EXIT
   ENDF EOF() = .T.
   SET COLOR TO R+/B, R+/B
   STORE "C" TO CHOICE
   @ 22,57 GET CHOICE PICT ":"
   READ
   * ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
   * DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
      IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
         SET COLOR TO W+/R, W+/R
         @ 24,24 SAY " Response must be either C or X "
         DO DELAY
         STORE "C" TO CHOICE
         ENDIF .NOT. (CHOICE = "C" .OR. CHOICE = "X")
         SET COLOR TO R+/B, R+/B
         @ 22,57 GET CHOICE PICT ":"
         READ
         * DETERMINE IF THE USER WANTS TO QUIT OR CONTINUE
         * IF CHOICE = "C"
            SET COLOR TO /BR, /BR
            @ 07,2 SAY SPACE(76)
            @ 08,2 SAY SPACE(76)
            @ 09,2 SAY SPACE(76)
            @ 10,2 SAY SPACE(76)
            @ 11,2 SAY SPACE(76)
EQPDINPC.PRG Program Listing

451 | @ 12,2 SAY SPACE(76)
452 | @ 13,2 SAY SPACE(76)
453 | @ 14,2 SAY SPACE(76)
454 | @ 15,2 SAY SPACE(76)
455 | @ 16,2 SAY SPACE(76)
456 | @ 17,2 SAY SPACE(76)
457 | @ 18,2 SAY SPACE(76)
458 | @ 19,2 SAY SPACE(76)
459 | @ 20,2 SAY SPACE(76)
460 | @ 21,2 SAY SPACE(76)
461 | STORE 0 TO LINECT
462 | ELSE
463 | EXIT
464 | ENDF IF CHOICE = "C"
465 | *
466 | ENDDO WHILE .NOT. EOF()
467 | *
468 | ENDF ACCEPT = "Y"
469 | *
470 | * ERASE ALL TEMPORARY FILES CREATED DURING REPORT GENERATION
471 | *
472 | CLOSE DATABASES
473 | SET CONSOLE OFF
474 | ERASE TEMPONE.DBF
475 | ERASE TEMPONE.NDX
476 | SET CONSOLE ON
477 | SET PRINT OFF
478 | *
479 | * RETURN TO CALLING PROGRAM
480 | *
481 | RELEASE ALL LIKE M*, ACCEPT, CHOICE, COLCNT, ERROR, LINECT, PAGEEND,;*
482 | SYSDATE, TODAY, TODATE
483 | RETURN
484 | ************************************************************
* PROCEDURE EQPDTPRC.PRG

* AUTHORS
  LCDR EDWARD J. CASE, SC, USN
  LCDR WINSTON H. BUCKLEY, SC, USN
  LCDR ROBERT F. BRADO, USN
  LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE
  PROVIDE THE USER A SPLICE EQUIPMENT DELIVERY ORDER DATE LEVEL REPORT WITH UNIT COSTS.

* INPUT FILES
  EQUIP.DBF, EQUIPSD.NDX, DESCRIP.DBF, DESCRIP.NDX, EQUIPSIT.NDX

* OUTPUT FILES
  TEMPONE.DBF, TEMPONE.NDX

* MODULES CALLED
  DELAY.PRG

* GLOBAL VARIABLE
  HIDATE, HISITE, CIDATE, COSITE

* LOCAL VARIABLES
  ACCEPT, CHOICE, COLON, ERROR, LINECOUNT, MKEY, MNAME, MDATE, MSITE, PAGENO, SYSDATE, TODAY

* DATE LAST TIME MODIFIED
  27 DECEMBER 1985

* CASE SELECTION = 1  EQUIPMENT EFFECTIVE DELIVERY ORDER REPORT WITH UNIT COST

* CALL EQUIPMENT DATABASE INDEXED ON SITE NUMBER. DISPLAY ALL EFFECTIVE DATES OF DELIVERY ORDERS FOR THE USER TO SELECT FROM.

* CALL EQUIPMENT DATABASE INDEXED ON EFFECTIVE DELIVERY ORDER DATE AND SITE NUMBER. COPY APPLICABLE RECORDS TO TEMPONE, INDEXED ON FEATURE NUMBER. RELATE TO DESCRIPTION FILE.

SET: ESCAPE OFF
SET: TALK OFF
SET: COLOR TO W+/B, W+/B, B
CLEAR
USE: EQUIP
GO TO: TOP
IF: EOF() = .T., THEN
  SET: COLOR TO W+/R, W+/R
  @ 13,24 SAY " The EQUIPMENT Database is EMPTY! "
  DO TO: DELAY
  RETURN
ENDIF
?? FLASH + "S.REPORTS.SCR"
@ 24,0 SAY SPACE(80)
SET: COLOR TO R+/R, R+/R
@ 2,25 SAY " DELIVERY ORDER LEVEL REPORT "
SET: COLOR TO W+/BR, W+/BR

277
APPENDIX B: MAINTENANCE MANUAL

Page 2

EQPDPRC.PRG Program Listing

51  @ 13,15 SAY "Enter site number for which the report is desired;"
52  *
53  * ENSURE THAT TEMPORARY DATABASE AND INDEX DO NOT EXIST, IF SO ERASE THEM
54  *
55  SET CONSOLE OFF
56  ERASE TEMPONE.DBF
57  ERASE TEMPONE.NDX
58  SET CONSOLE ON
59  USE EQUIP INDEX EQUIPSIT
60  *
61  DO WHILE .T.
62  SET COLOR TO /BR, /BR
63  STORE LOSITE TO MSITE
64  @ 13,66 SET MSITE PICT '99'
65  READ
66  IF .NOT. (MSITE = LOSITE .AND. MSITE <= HISITE) THEN
67  SET COLOR TO W+/R, W+/R
68  "Response must be between ' + LOSITE +;
69  ' and ' + HISITE + ' TO ERROR
70  @ 24,22 SAY ERROR
71  DO DELAY
72  END
73  ELSE
74  GO TOP
75  FIND &MSITE
76  IF EOF() = .T. THEN
77  STORE "No equipment exists for site " + MSITE + "
78  "try another site" TO MESSAGE
79  SET COLOR TO W+/R, W+/R
80  @ 24,15 SAY MESSAGE
81  DO DELAY
82  LOOP
83  ELSE
84  EXIT
85  ENDDO IF EOF() = .T.
86  ENDDO IF NOT. (MSITE > LOSITE .AND. MSITE <= HISITE)
87  ENDWHILE .T.
88  *
89  SET COLOR TO W+/BR, W+/BR
90  @ 13,15 SAY SPACE(60)
91  *
92  SET COLOR TO W+/B, W+/B
93  @ 05,09 SAY "The following Delivery Order Effective Dates exist for Site"
94  @ 05,69 SAY MSITE
95  SET COLOR TO /HR, /BR
96  @ 13,05 SAY SPACE(70)
97  STORE 1 TO LINDET
98  STORE COMA TO COLCNT
99  STORE "0000000" TO MOLDATE
100  *
APPENDIX B: MAINTENANCE MANUAL

EQPUPPRC.PRG Program Listing

101 DO WHILE SITENO = MSITE
102 IF (COLCNT - (COLCNT * (COLCNT/3)) = 0.00) THEN
103 @LINEXT+6,57 SAY EFFDATE
104 ELSE
105 IF (COLCNT - (COLCNT * (COLCNT/2)) = 0.00) THEN
106 @LINEXT+6,38 SAY EFFDATE
107 ELSE
108 ENDIF (COLCNT - (COLCNT/2)) = 0.00)
109 IF (COLCNT - (COLCNT * (COLCNT/3)) = 0.00) THEN
110 LINEXT = 1 + LINEXT
111 COLCNT = 1.00
112 ELSE
113 COLCNT = COLCNT + 1.00
114 ENDIF (COLCNT - (COLCNT/3)) = 0.00)
115 STORE EFFDATE TO MOLDATE
116 DO WHILE ((EFFDATE = MOLDATE) .AND. .NOT. EOF())
117 ENDWO
118 IF EOF() THEN
119 EXIT
120 ELSE
121 ENDIF EOF()
122 USE EQUIP INDEX EQUIPSD.NDX
123 DO WHILE .NOT. (MOLDATE >= LIDATE .AND. MOLDATE <= HIDATE)
124 STORE MOLDATE TO MOLDATE
125 SET COLOR TO R+/B, R+/B
126 GET MOLDATE PIC P"999999"
127 READ
128 DO WHILE .T.
129 IF .NOT. (SUBSTR(MOLDATE,1,2) > "83" .AND.;
130 SUBSTR(MOLDATE,1,2) <= "99") THEN

279
SET COLOR TO W/B, W/B
@ 24,0 SAY SPACE(80)
SET COLOR TO W+/R, W+/R
@ 24,16 SAY " Year portion of date must be between 84 and 99 "
DO DELAY
SET COLOR TO /W, /W
@ 24,0 SAY MESSAGE
STORE SUBSTR(MDATE,1,2) TO MYEAR
SET COLOR TO R+/B, R+/B
@ 3,45 GET MYEAR PICT "99"
READ
STORE MYEAR + SUBSTR(MOLDATE,3,4) TO MOLDATE
ELSE
EXIT
ENDIF
* END0
DO WHILE .T.
  IF .NOT. (SUBSTR(MOLDATE,3,2) > "00" .AND. ;
    SUBSTR(MOLDATE,3,2) < "13") THEN
  SET COLOR TO W/B, W/B
  @ 24,0 SAY SPACE(80)
  SET COLOR TO W+/R, W+/R
  @ 24,16 SAY " Month portion of date must be between 01 and 12 "
  DO DELAY
  SET COLOR TO /W, /W
  @ 24,0 SAY MESSAGE
  STORE SUBSTR(MOLDATE,3,2) TO MM0NH
  SET COLOR TO R+/B, R+/B
  @ 3,47 GET MM0NH PICT "99"
  READ
  STORE SUBSTR(MOLDATE,1,2) + MM0NH *;
  SUBSTR(MOLDATE,5,2) TO MOLDATE
  ELSE
  EXIT
ENDIF
* END0
DO WHILE .T.
  IF ( (SUBSTR(MOLDATE,3,2) = "04" .OR. SUBSTR(MOLDATE,3,2) = "06" .OR. ;
    SUBSTR(MOLDATE,3,2) = "09" .OR. SUBSTR(MOLDATE,3,2) = "11") .AND. ;
    .NOT. (SUBSTR(MOLDATE,5,2) = "01" .AND. ;
    SUBSTR(MOLDATE,5,2) <= "30") ) THEN
  SET COLOR TO W/B, W/B
  @ 24,0 SAY SPACE(80)
  SET COLOR TO W+/R, W+/R
  @ 24,16 SAY " Day portion of date must be between 01 and 30 "
  DO DELAY
  SET COLOR TO /W, /W
  @ 24,0 SAY MESSAGE
APPENDIX B: MAINTENANCE MANUAL

Page 5

EQPDTPRC.PRG Program Listing

201 STORE SUBSTR(MDATE,5,2) TO MDAY
202 SET COLOR TO R+B, R+B
203 @ 3,49 GET MDAY PICT "99"
204 READ
205 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
206 LOOP
207 ELSE

209 IF (SUBSTR(MOLDATE,3,2) = "02" .AND. .NOT.;
210 (SUBSTR(MOLDATE,5,2) >= "01" .AND.;
211 SUBSTR(MOLDATE,5,2) <= "28") THEN
212 SET COLOR TO W/B, W/B
213 @ 24,0 SAY SPACE(80)
214 SET COLOR TO W+/R, W+/R
215 @ 24,16 SAY " Day portion of date must be between 01 and 28 "
216 DO DELAY
217 SET COLOR TO /W; /W
218 @ 24,0 SAY MESSAGE
219 STORE SUBSTR(MDATE,5,2) TO MDAY
220 SET COLOR TO R+/B, R+B
221 @ 3,49 GET MDAY PICT "99"
222 READ
223 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
224 LOOP
225 ELSE

227 IF .NOT. (SUBSTR(MOLDATE,5,2) >= "01" .AND.;
228 (SUBSTR(MOLDATE,5,2) <= "31") THEN
229 SET COLOR TO W/B, W/B
230 @ 24,0 SAY SPACE(80)
231 SET COLOR TO W+/R, W+/R
232 @ 24,16 SAY " Day portion of date must be between 01 and 31 "
233 DO DELAY
234 SET COLOR TO /W; /W
235 @ 24,0 SAY MESSAGE
236 STORE SUBSTR(MDATE,5,2) TO MDAY
237 SET COLOR TO R+/B, R+B
238 @ 3,49 GET MDAY PICT "99"
239 READ
240 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
241 LOOP
242 ELSE

244 EXIT
245 EXIT
246 EXIT
247 ENDDO WHILE .T.
248 *
249 GO TOP
250 FIND &MOLDATE

281
APPENDIX B: MAINTENANCE MANUAL

Page 145

Page 6

EQPDTPRC.PRG Program Listing

251 IF EOF() = .T. THEN
252 "SET COLOR TO W/B, W/B
253 @ 24,0 SAY SPACE(80)
254 STORE " EFFECTIVE DATE " + MOLDATE + " does not exist for site " +
255 MSITE + ", try another " TO NODATE
256 "SET COLOR TO W+/R, W+/R
257 @ 24,06 SAY NODATE
258 DO DELAY
259 "SET COLOR TO /W, /W
260 @ 24,0 SAY MESSAGE
261 STORE "000000" TO MOLDATE
262 LOOP
263 ELSE
264 "EXIT
265 ENDF IF EOF() = .T.
266 "ENDDO WHILE .NOT. (MOLDATE >= LODATE .AND. MOLDATE <= HIDATE)
267 *
268 "SET COLOR TO W+/B, W+/B
269 @ 05,05 SAY SPACE(70)
270 @ 24,0 SAY SPACE(80)
271 *
272 "CLEAR LISTING OF EFFECTIVE DATES FROM SCREEN
273 *
274 "SET COLOR TO /BR, /BR
275 @ 07,2 SAY SPACE(76)
276 @ 08,2 SAY SPACE(76)
277 @ 09,2 SAY SPACE(76)
278 @ 10,2 SAY SPACE(76)
279 @ 11,2 SAY SPACE(76)
280 @ 12,2 SAY SPACE(76)
281 @ 13,2 SAY SPACE(76)
282 @ 14,2 SAY SPACE(76)
283 @ 15,2 SAY SPACE(76)
284 @ 16,2 SAY SPACE(76)
285 @ 17,2 SAY SPACE(76)
286 @ 18,2 SAY SPACE(76)
287 @ 19,2 SAY SPACE(76)
288 @ 20,2 SAY SPACE(76)
289 @ 21,2 SAY SPACE(76)
290 *
APPENDIX B: MAINTENANCE MANUAL

Page 146

EQPDTFRC.PRG Program Listing

301 SELECT 2
302 USE DESCRIP INDEX DESCRIP
303 SELECT TEMPONE
304 SET RELATION TO FEATURENO INTO DESCRIP
305 GO TOP
306 *
307 * CREATE THE SPLICE EQUIPMENT PROJECT REPORT AND CHECK IF THE REPORT
308 * IS TO BE PRINTED OR DISPLAYED ON THE SCREEN.
309 *
310 SET COLOR TO W+/BR, W+/BR
311 @ 13,15 SAY SPACE(60)
312 @ 13,16 SAY "Do you want a printed report? (Yes or No): "
313 SET COLOR TO /BR, /BR
314 @ 13,49 SAY "Y"
315 @ 13,56 SAY "N"
316 STORE "N" TO ACCEPT
317 @ 13,62 GET ACCEPT PICT ":!"
318 READ
319 *
320 * ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
321 *
322 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
323 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
324 SET COLOR TO W+/R, W+/R
325 @ 24,24 SAY "Response must be either N or Y"
326 DO DELAY
327 STORE "N" TO ACCEPT
328 ENDIF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
329 SET COLOR TO /BR, /BR
330 @ 13,62 GET ACCEPT PICT ":!"
331 READ
332 ENDDO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
333 *
334 SET COLOR TO /BR, /BR
335 @ 13,15 SAY SPACE(55)
336 *
337 IF ACCEPT = "Y" THEN
338 ?? FLASH + "W.PRINTER/"
339 SET CONSOLE OFF
340 WAIT TO CHOICE
341 SET CONSOLE ON
342 SET COLOR TO W/B, W/B
343 @ 22,10 SAY SPACE(65)
344 STORE DTOC(DATE()) TO TODAY
345 STORE SUBSTR(TODAY,4,2) + " " + MONTHT(DATE()) + "19" +
346 SUBSTR(TODAY,7,2) TO TODATE
347 STORE 0 TO PAGENO
348 STORE 61 TO LINECT
349 SET COLOR TO R+/R+, R+/
350 SET DEVICE TO PRINT
**APPENDIX B: MAINTENANCE MANUAL**

**EQPUPPRC.PRG Program Listing**

```plaintext
351  * DO WHILE .NOT. EOF()
352     DO WHILE (LINECT <= 60 .AND. .NOT. EOF())
353         @ LINECT,3 SAY SITENO PICI "99"
354         @ LINECT,9 SAY B->CLIN PIC "9999"
355         @ LINECT,17 SAY FEATURENO PIC "999999"
356         @ LINECT,28 SAY B->DESCRIPT PIC "!!!!!!!!!!!!!!!!!!!!!!"'
357         @ LINECT,60 SAY QTY PIC "99999999.99"
358         @ LINECT = LINECT + 1
359     SKIP
360     ENDUO WHILE (LINECT <= 60 .AND. .NOT. EOF())
361  *
362     IF EOF() = .T. THEN
363         IF PAGENO > 1 THEN
364             @ 62,37 SAY "Page " + STR(PAGENO,2,0)
365             ENDIF PAGENO > 1
366         EJECT
367         SET DEVICE TO SCREEN
368         @ 13,25 SAY "FINISHED PRINTING THE REPORT."
369         DO DELAY
370         EXIT
371     ELSE
372         SET DEVICE TO SCREEN
373         @ 13,27 SAY "Printing Page Number " + STR(PAGENO + 1,2,0) + ""
374         SET DEVICE TO PRINT
375         ENDIF EOF() = .T.
376  *
377     IF (LINECT > 60 .AND. PAGENO > 1) THEN
378         @ 62,37 SAY "Page " + STR(PAGENO,2,0)
379         ENDIF (LINECT > 60 .AND. PAGENO > 1)
380         @ 2,25 SAY "DELIVERY ORDER LEVEL REPORT"
381         @ 3,29 SAY "EFFECTIVE DATE:"
382         @ 3,45 SAY MOLDATE
383         @ 4,60 SAY TODATE
384         @ 6,2 SAY "SITE CLIN. FEATURE# DESCRIPTION"
385         @ 6,60 SAY "QTY UNIT PRICE"
386         @ 7,2 SAY "=================================================================
387         @ 7,51 SAY "=================================================================
388         @ PAGENO = PAGENO + 1
389         STORE 9 TO LINECT
390  *
391     ENDUO WHILE .NOT. EOF()
392  ELSE
393     SET COLOR TO GR+/B, GR+/B
394     @ 5,2 SAY "SITE CLIN. FEATURE# DESCRIPTION"
395     @ 5,60 SAY "QTY UNIT PRICE"
396     SET COLOR TO /UR, /UR
397     STORE 0 TO LINECT
398  *
399  END
```

284
EQPDTPRC.PRG Program Listing

```plaintext
401    DO WHILE .NOT. EOF()
402        DO WHILE LINECT < 15
403            @ LINECT+7,3 SAY SITENO PICT "99"
404            @ LINECT+7,9 SAY B->CLIN PICT "99999"
405            @ LINECT+7,17 SAY FEATURENO PICT "999999"
406            @ LINECT+7,28 SAY B->DESCPCT PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!"  
407            @ LINECT+7,60 SAY QTY PICT "99999999.99"
408            LINECT = LINECT + 1
409        SKIP
410    IF EOF() = .T. THEN
411        SET COLOR TO W+/R, W+/R
412        @ 24,18 SAY " End of File reached, Press any key to EXIT "
413        SET CONSOLE OFF
414        WAIT TO ACCEPT
415        SET CONSOLE ON
416        EXIT
417    ENDF EOF() = .T.
418    ENDDO WHILE LINECT < 15
419
420    IF EOF() = .T. THEN
421        EXIT
422    ENDF EOF() = .T.
423    SET COLOR TO R+/B, R+/B
424    STORE "C" TO CHOICE
425    : 22,57 GET CHOICE PICT ":"
426    READ
427
428    ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
429
430    DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
431        IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
432            SET COLOR TO W+/R, W+/R
433            @ 24,24 SAY " Response must be either C or X "
434            DO DELAY
435            STORE "C" TO CHOICE
436        ENDF .NOT. (CHOICE = "C" .OR. CHOICE = "X")
437        SET COLOR TO R+/B, R+/B
438        @ 22,57 GET CHOICE PICT ":"
439        READ
440    ENDDO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
441
442    DETERMINE IF THE USER WANTS TO QUIT OR CONTINUE
443
444    IF CHOICE = "C"
445        SET COLOR TO /BR, /BR
446        @ 07,2 SAY SPACE(76)
447        @ 08,2 SAY SPACE(76)
448        @ 09,2 SAY SPACE(76)
449        @ 10,2 SAY SPACE(76)
450
```
EQPDTPRC.PRG Program Listing

451   @ 11,2 SAY SPACE(76)
452   @ 12,2 SAY SPACE(76)
453   @ 13,2 SAY SPACE(76)
454   @ 14,2 SAY SPACE(76)
455   @ 15,2 SAY SPACE(76)
456   @ 16,2 SAY SPACE(76)
457   @ 17,2 SAY SPACE(76)
458   @ 18,2 SAY SPACE(76)
459   @ 19,2 SAY SPACE(76)
460   @ 20,2 SAY SPACE(76)
461   @ 21,2 SAY SPACE(76)
462       STORE 0 TO LINECT
463       ELSE
464           EXIT
465           ENDIF CHOICE = "C"
466       *
467       ENDDO WHILE .NOT. EOF()
468       *
469       ENDF ACCEPT = "Y"
470       *
471       * ERASE ALL TEMPORARY FILES CREATED DURING REPORT GENERATION
472       *
473       CLOSE DATABASES
474       SET CONSOLE OFF
475       ERASE TEMPONE.DBF
476       ERASE TEMPONE.NDX
477       SET CONSOLE ON
478       SET PRINT OFF
479       *
480       * RETURN TO CALLING PROGRAM
481       *
482       RELEASE ALL LIKE M*, ACCEPT, CHOICE, COLCNT, ERROR, LINECT, PAGENO;
483       SYSDATE, TODAY, TOODATE
484       RETURN
485       *******************************************
* PROCEDURE EQPJPRPT.PRG

* AUTHORS: LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE: PROVIDE THE USER A SPLICE EQUIPMENT PROJECT LEVEL REPORT.

* INPUT FILES: EQUIP.DBF, DESCRIP.DBF, DESCRIP.NDX,
* TEMPEO.DBF, EFECT.NDX

* OUTPUT FILE: TEMPEO.DBF

* CALLED BY: PROJRPTS.PRG

* MODULES CALLED: DELAY.PRG

* LOCAL VARIABLES: ACCEPT, CHOICE, LINEC', PAGENO, TODAY, '10DATE

* DATE LAST TIME MODIFIED ===============> 27 DECEMBER 1985 ===============>

* CASE SELECTION = 1 EQUIPMENT PROJECT LEVEL REPORT

* CALL EQUIPMENT DATABASE INDEXED ON CONTRACT LINE NUMBER AND FEATURE
* NUMBER AND TOTAL ON QUANTITY. RELATE TO DESCRIP FILE ON FEATURENO.

SET ESCAPE OFF
SET TALK OFF
SET COLOR TO W+/B, W+/B, B
CLEAR
USE EQUIP
GO TOP
IF EOF() = .T. THEN
  SET COLOR TO W+/R, W+/R
  \ 13,24 SAY " The EQUIPMENT Database is EMPTY! "
  DO DELAY
  RETURN
ENDIF
?? FLASH + "S.REPORTS.SCR/"
\ 24,0 SAY SPACE(80)
SET COLOR TO R+/ , R+/ 
\ 2,25 SAY " EQUIPMENT PROJECT LEVEL REPORT "
*
* CREATE THE SPLICE EQUIPMENT PROJECT REPORT AND CHECK IF THE REPORT IS TO BE PRINTED OR DISPLAYED ON THE SCREEN.
*
SET COLOR TO W+/UR, W+/UR
\ 13,16 SAY " Do you want a printed report? (Yes or No) : "

287
EQPPJRPT.PRG Program Listing

51 SET COLOR TO /BR, /BR
52 @ 13,49 SAY "y"
53 @ 13,56 SAY "N"
54 STORE "N" TO ACCEPT
55 @ 13,62 GET ACCEPT PICT ":!"
56 READ
57 *
58 * ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
59 *
60 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
61 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
62 SET COLOR TO W+/R, W+/R
63 @ 24,24 SAY "Response must be either N or Y"
64 DO DELAY
65 STORE "N" TO ACCEPT
66 ENDIF
67 SET COLOR TO /BR, /BR
68 @ 13,62 GET ACCEPT PICT ":!"
69 READ
70 ENDDO
71 *
72 SET COLOR TO /BR, /BR
73 @ 13,15 SAY SPACE(55)
74 *
75 SET COLOR TO W+/BR, W+/BR
76 @ 13,19 SAY " COMPUTING TOTALS FOR EACH FEATURE NUMBER 
77 *
78 USE EQUIP INDEX EFEAT
79 GO TOP
80 SET CONSOLE OFF
81 ERASE TEMPONE.DBF
82 SET CONSOLE ON
83 *
84 * COMPUTE THE TOTAL QUANTITY FOR EACH FEATURE NUMBER
85 *
86 TOTAL ON FEATURENO TO TEMPONE.DBF FIELDS QTY WHILE FEATURENO = 'XXXXXX'
87 *
88 SELECT 1
89 USE TEMPONE
90 SELECT 2
91 USE DESCRIP INDEX DESCRIP
92 SELECT TEMPONE
93 SET relation TO FEATURENO INTO DESCRIP
94 GO TOP
95 *
96 @ 13,15 SAY SPACE(55)
97 *
98 IF ACCEPT = "Y" THEN
99 ?? FLASH + "W.PRINTER/"
100 SET CONSOLE OFF
WAIT TO CHOICE
SET CONSOLE ON
SET COLOR TO W/B, W/B
@ 22,10 SAY SPACE(65)
STORE DTOC(DATE()) TO TODAY
STORE SUBSTR(TODAY,4,2) + "+" + MONTH(DATE()) + "19" +
STORE 0 TO PAGENO
STORE 61 TO LNECT
SET COLOR TO R++, R++
SET DEVICE TO PRINT
* DO WHILE .NOT. EOF()
  DO WHILE (LNECT <= 60 .AND. .NOT. EOF())
    @ LNECT,10 SAY DESCRIP->CLIN
    @ LNECT,22 SAY FEATURENO
    @ LNECT,35 SAY DESCRIP->DESCRIPT
    @ LNECT,68 SAY QTY
    LNECT = LNECT + 1
    SKIP
  ENDDO WHILE
* IF EOF() = .T. THEN
  IF PAGENO > 1 THEN
    ENDIF
    EJECT
    SET DEVICE TO SCREEN
    @ 13,25 SAY "FINISHED PRINTING THE REPORT"
    DO DELAY
    EXIT
  ELSE
    SET DEVICE TO SCREEN
    @ 13,27 SAY "Printing Page Number" + STR(PAGENO + 1,2,0) + ""
    SET DEVICE TO PRINT
    ENDF
  IF (LNECT > 60 .AND. PAGENO > 1) THEN
    ENDIF
    @ 2,25 SAY "EQUIPMENT PROJECT LEVEL REPORT"
    @ 4,60 SAY TODAY
    @ 6,10 SAY "CLIN FEATURE# DESCRIPTION"
    @ 6,68 SAY "QTY"
    @ 7,2 SAY "=================================================================
    @ 7,51 SAY "=================================================================
    PAGENO = PAGENO + 1
    STORE 9 TO LNECT
  ENDW DO WHILE .NOT. EOF()}
151 *
152 ELSE
153   SET COLOR TO GR+/B, GR+/B
154   @ 5,10 SAY "CLIN FEATURE# DESCRIPTION"
155   @ 5,68 SAY "QTY"
156   SET COLOR TO /BR, /BR
157   STORE 0 TO LINECT
158 *
159       DO WHILE .NOT. EOF()
160         DO WHILE LINECT < 15
161           @ LINECT+7,10 SAY DESCRIPT->CLIN
162           @ LINECT+7,22 SAY FEATURENO
163           @ LINECT+7,35 SAY DESCRIPT->DESCRIPT
164           @ LINECT+7,68 SAY QTY
165           LINECT = LINECT + 1
166           SKIP
167           IF EOF() = .T. THEN
168             SET COLOR '1) W+/R, W+/R
169             @ 24,18 SAY " End of File reached, Press any key to EXIT "
170             SET CONSOLE OFF
171             WAIT TO ACCEPT
172             SET CONSOLE ON
173             EXIT
174       ENDIF
175       ENDDO WHILE LINECT < 15
176 *
177       IF EOF() = .T. THEN
178         EXIT
179       ENDIF
180       SET COLOR TO R+/B, R+/B
181       STORE "C" TO CHOICE
182       @ 22,57 GET CHOICE PICT ":"
183       READ
184 *
185       ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
186 *
187       DO WHILE .NOT. (CHOICE = "C" OR CHOICE = "X")
188       IF .NOT. (CHOICE = "C" OR CHOICE = "X") THEN
189         SET COLOR TO W+/R, W+/R
190         @ 24,24 SAY " Response must be either C or X "
191         DO DELAY
192         STORE "C" TO CHOICE
193       ENDIF
194       SET COLOR TO R+/B, R+/B
195       @ 22,57 GET CHOICE PICT ":"
196       READ
197       ENDDO
198 *
199       DETERMINE IF THE USER WANTS TO QUIT OR CONTINUE
200 *
IF CHOICE = "C"
    SET COLOR TO /BR, /BR
203    @ 07,2 SAY SPACE(76)
204    @ 08,2 SAY SPACE(76)
205    @ 09,2 SAY SPACE(76)
206    @ 10,2 SAY SPACE(76)
207    @ 11,2 SAY SPACE(76)
208    @ 12,2 SAY SPACE(76)
209    @ 13,2 SAY SPACE(76)
210    @ 14,2 SAY SPACE(76)
211    @ 15,2 SAY SPACE(76)
212    @ 16,2 SAY SPACE(76)
213    @ 17,2 SAY SPACE(76)
214    @ 18,2 SAY SPACE(76)
215    @ 19,2 SAY SPACE(76)
216    @ 20,2 SAY SPACE(76)
217    @ 21,2 SAY SPACE(76)
218    STORE 0 TO LINECT
219 ELSE
220    EXIT
221 ENDIF
222 *
223    ENDDO WHILE .NOT. EOF()
224 *
225 ENDIF
226 *
227    ERASE TEMPORARY DATABASE USED FOR TOTALS
228 *
229    CLOSE DATABASES
230    SET CONSOLE OFF
231    ERASE TEMPONE.DBF
232    SET CONSOLE ON
233    SET PRINT OFF
234 *
235    * RETURN TO CALLING PROGRAM
236 *
237    RELEASE ACCEPT, CHOICE, LINECT, PAGENO, TODAY, TODEATE
238    RETURN
239
******
APPENDIX B: MAINTENANCE MANUAL Page 155

Page 1

EQPSTRPT.PRG Program Listing

* * PROCEDURE EQPSTRPT.PRG

* * AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN
* * PURPOSE : PROVIDE THE USER A SPLICE EQUIPMENT SITE LEVEL REPORT FOR A SINGLE SITE.
* * INPUT FILES : EQUIP.DBF, EFEAT.NDX, DESCRIP.DBF, DESCRIP.NDX,
* TEMPONE.DBF, EQUIPSIT.NDX
* * OUTPUT FILES : NONE.
* * CALLED BY : SITERPTS.PRG
* * MODULES CALLED : DELAY.PRG
* * GLOBAL VARIABLE: HISITE, LOSITE
* * LOCAL VARIABLES: ACCEPT, QIOLCE, ERROR, LINEC, MESSAGE, mSi'IL,
* PAGENO, TODAY, TODATE
* * DATE LAST TIME MODIFIED =========== 27 DECEMBER 1985 <==========
* CASE SELECTION = 1 EQUIPMENT SITE LEVEL REPORT
* CALL EQUIPMENT DATABASE INDEXED ON SITE NUMBER, CONTRACT LINE NUMBER
* AND FEATURE NUMBER AND TOTAL ON QUANTITY.

SET ESCAPE OFF
SET TALK OFF
SET COLOR TO W+/B, W+/B, B
CLEAR
USE EQUIP
GO TOP
IF EOF() = .T. THEN
SET COLOR TO W+/R, W+/R
13,24 SAY " THE EQUIPMENT DATABASE IS EMPTY! "
DO DELAY
RETURN
ENDIF
?? FLASH "S.REPORTS..SCR/
24,0 SAY SPACE(80)
SET COLOR TO R+/+, R+/
2,26 SAY " EQUIPMENT SITE LEVEL REPORT "
* * ENSURE THAT TEMPRARY DATABASE DOES NOT EXIST, IF SO ERASE IT
SET CONSOLE OFF
ERASE TEMPONE.DBF
SET CONSOLE ON

SET COLOR TO W+/BR, W+/BR
@ 13,15 SAY "Enter site number for which the report is desired:"

DO WHILE .T.
SET COLOR TO /BR, /BR
STORE LOSITE TO MSITE
@ 13,66 GET MSITE PICT '99'
READ
IF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
SET COLOR TO W+/R, W+/R
STORE 'Response must be between ' + LOSITE + ;
' and ' + HISITE + ' TO ERROR
@ 24,22 SAY ERROR
DO DELAY
LOOP
ELSE
USE EQUIP INDEX EQUIPSIT
DO TOP
FIND &MSITE
IF EOF() = .T. THEN
STORE "No equipment exists for site " + MSITE + ;
" , try another site " TO MESSAGE
SET COLOR TO W+/R, W+/R
@ 24,15 SAY MESSAGE
DO DELAY
LOOP
ELSE
EXIT
ENDIF
ENDIF EOF() = .T.
ENDIF
ENDDO WHILE .T.

SET COLOR TO W+/BR, W+/BR
@ 13,15 SAY SPACE(55)

CREATE THE SPLICE EQUIPMENT PROJECT REPORT AND CHECK IF THE REPORT
IS TO BE PRINTED OR DISPLAYED ON THE SCREEN.

@ 13,16 SAY " Do you want a printed report? (Yes or No): 

SET COLOR TO /BR, /BR
@ 13,49 SAY "y"
@ 13,56 SAY "n"
STORE "n" TO ACCEPT
@ 13,62 GET ACCEPT PICT ":
READ

*
APPENDIX B: MAINTENANCE MANUAL

Page 3

EQPSTRPT.PRG Program Listing

101 * ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
102 *
103 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
104 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
105 SET COLOR TO W+/R, W+/R
106 @ 24,24 SAY " Response must be either N or Y "
107 DO DELAY
108 STORE "N" TO ACCEPT
109 ENDIF
110 SET COLOR TO /BR, /BR
111 @ 13,62 GET ACCEPT PICT ":""
112 READ
113 ENDDO
114 SET COLOR TO /BR, /BR
115 @ 13,15 SAY SPACE(55)
116 *
117 SET COLOR TO W+/BR, W+/BR
118 @ 13,17 SAY " COMPUTING TOTALS FOR EACH SITE FEATURE NUMBER "
119 *
120 USE EQUIP INDEX EFEAT
121 TOTAL ON FEATURENO TO TEMPONE.DBF FIELDS QTY;
122 FOR FEATURENO <> 'XXXXXX' .AND. SITENO = 'MISITE'
123 SELECT 1
124 USE TEMPONE
125 SELECT 2
126 USE DESCRIP INDEX DESCRIP
127 SELECT TEMPONE
128 SET RELATION TO FEATURENO INTO DESCRIP
129 GO TOP
130 *
131 @ 13,15 SAY SPACE(55)
132 *
133 IF ACCEPT = "Y" THEN
134 ?? FLASH + "W.PRINTER."
135 SET CONSOLE OFF
136 WAIT TO CHOICE
137 SET CONSOLE ON
138 SET COLOR TO W/B, W/B
139 @ 22,10 SAY SPACE(65)
140 STORE DFOC(DATE(1)) TO TODAY
141 STORE SUBSTR(TODAY,4,2) + "" + CNUM(DATE(1)) + "" ;
142 STORE SUBSTR(TODAY,6,2) TO TODAY
143 STORE 0 TO PAGEENO
144 STORE 61 TO LINECT
145 SET COLOR TO R+/ , R+/.
146 SET DEVICE TO PRINT
147 *
148 DO WHILE .NOT. EOF()
149 DO WHILE (LINECT < 60 .AND. .NOT. EOF())
150 @ LINECT,9 SAY SITENO

294
@ LINECT,17 SAY DESCRIP->CLIN
@ LINECT,27 SAY FEATURENO
@ LINECT,39 SAY DESCRIP->DESCIPT
@ LINECT,71 SAY QTY
LINECT = LINECT + 1
SKIP
ENDDO WHILE (LINECT <= 60 .AND. .NOT. EOF())

* IF EOF() = .T. THEN
  IF PAGE(1) > 1 THEN
    @ 62,37 SAY "Page " + STR(PAGE(1),2,0)
    EJECT
    PAGE(1) = 1
    SET DEVICE TO SCREEN
    @ 13,25 SAY "FINISHED PRINTING THE REPORT"
    DO DELAY
    EXIT
  ELSE
    SET DEVICE TO SCREEN
    SET DEVICE TO PRINT
  ENDIF EOF() = .T.

* IF (LINECT > 60 .AND. PAGE(1) > 1) THEN
  @ 62,37 SAY "Page " + STR(PAGE(1),2,0)
  ENDIF (LINECT > 60 .AND. PAGE(1) > 1)
  @ 2,25 SAY "EQUIPMENT SITE LEVEL REPORT"
  @ 4,60 SAY TODATE
  @ 6,8 SAY "SITE CLIN FEATURE# DESCRIPTION"
  @ 6,71 SAY "QTY"
  @ 7,2 SAY "-----------------------------------------"
  @ 7,51 SAY "-----------------------------------------"
  PAGE(1) = PAGE(1) + 1
  STORE 9 TO LINECT

ENDDO WHILE .NOT. EOF()

ELSE
  SET COLOR TO GR+R, GR+R
  @ 5,8 SAY "SITE CLIN FEATURE# DESCRIPTION"
  @ 5,71 SAY "QTY"
  SET COLOR TO /BR, /BR
  STORE 0 TO LINECT
END WHILE NOT. EOF()

* DO WHILE .NOT. EOF()

DO WHILE LINECT < 15
  @ LINECT,7,9 SAY SITE(1)
  @ LINECT,7,17 SAY DESCRIP->CLIN
  @ LINECT,7,21 SAY PAGE(1)
  @ LINECT,7,30 SAY DESCRIP->DESCIPT

295
APPENDIX B: MAINTENANCE MANUAL

EQPSRT.PRG Program Listing

201  @ LINECT+7,71 SAY QTY
202  LINECT = LINECT + 1
203  SKIP
204  IF EOF() = .T. THEN
205    SET COLOR TO W+/R, W+/R
206    @ 24,7 SAY " End of File reached, Press any key to EXIT "
207    SET CONSOLE OFF
208    WAIT TO ACCEPT
209    SET CONSOLE ON
210    EXIT
211  ENDF EOF() = .T.
212  ENDDO WHILE LINECT < 15
213  *
214  IF EOF() = .T. THEN
215    EXIT
216  ENDF EOF() = .T.
217  SET COLOR TO R+/B, R+/B
218  STORE "C" TO CHOICE
219    @ 22,57 GET CHOICE PICT "!"
220    READ
221  *
222  * ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
223  *
224  DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
225    IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
226      SET COLOR TO W+/R, W+/R
227      @ 24,24 SAY " Response must be either C or X "
228      DO DELAY
229      STORE "C" TO CHOICE
230    ENDF .NOT. (CHOICE = "C" .OR. CHOICE = "X")
231    SET COLOR TO R+/B, R+/B
232    @ 22,57 GET CHOICE PICT "!"
233    READ
234  ENDDO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
235  *
236  * DETERMINE IF THE USER WANTS TO QUIT OR CONTINUE
237  *
238  IF CHOICE = "C"
239    SET COLOR TO /BR, /BR
240      @ 07,2 SAY SPACE(76)
241      @ 08,2 SAY SPACE(76)
242      @ 09,2 SAY SPACE(76)
243      @ 10,2 SAY SPACE(76)
244      @ 11,2 SAY SPACE(76)
245      @ 12,2 SAY SPACE(76)
246      @ 13,2 SAY SPACE(76)
247      @ 14,2 SAY SPACE(76)
248      @ 15,2 SAY SPACE(76)
249      @ 16,2 SAY SPACE(76)
250      @ 17,2 SAY SPACE(76)
APPENDIX B: MAINTENANCE MANUAL

EQPSTRPT.PRG Program Listing

251 @ 18,2 SAY SPACE(76)
252 @ 19,2 SAY SPACE(76)
253 @ 20,2 SAY SPACE(76)
254 @ 21,2 SAY SPACE(76)
255 STORE 0 TO LINECT
256 ELSE
257 EXIT
258 ENDIF CHOICE = "C"
259 *
260 ENDDO WHILE .NOT. EOF()
261 *
262 ENDF ACCEPT = "Y"
263 *
264 * ERASE THE TEMPORARY DATABASE USED FOR TOTALS
265 *
266 CLOSE DATABASES
267 SET CONSOLE OFF
268 ERASE TEMPONE.DBF
269 SET CONSOLE ON
270 SET PRINT OFF
271 *
272 * RETURN TO CALLING PROGRAM
273 *
274 RELEASE ACCEPT, CHOICE, ERROR, LINECT, MESSAGE, MSITE, PAGE,;
275 TODAY, TDATE
276 RETURN
277*******************************************************************************
* PROCEDURE EQUIPCMD.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : PROVIDE THE USER THE OPPORTUNITY TO MODIFY OR REVIEW
* ALL DATA IN THE EQUIPMENT DATABASE.

* INPUT FILES : NONE
* OUTPUT FILE : NONE

* MODULES CALLED : EQUIPUPD.PRG, EQUIPREV.PRG

* CALLED BY : MAINMENU.COM

* LOCAL VARIABLES: SELECT

* DATE LAST TIME MODIFIED = 22 DECEMBER 1985

* DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE
* SELECTION.

STORE "1" TO SELECT
DO WHILE SELECT = "1"
CLEAR
FLASH "MAIN MENU"
SET OCLASS = 11
WAIT FOR SELECT
ENDCASE

* PROCESS PROCEDURE BASED ON THE USER'S SELECTION.

DO CASE

CASE SELECT = "1"
CALL THE DATABASE UPDATE PROGRAM.
ENDCASE

CASE SELECT = "2"
CALL THE DATABASE REVIEW PROGRAM.
ENDCASE

RETURN TO THE MAIN MENU PROGRAM.
ENDCASE

ENDCASE
EQUIPCMD.PRG Program Listing

51 | *
52 | ENDDO (WHILE SELECT = "3")
53 | *
54 | * RETURN TO THE CALLING PROGRAM
55 | *
56 | RETURN
57 | ***********************************************
APPENDIX B: MAINTENANCE MANUAL  Page 163

Page 1  EQUIPREV.PRG Program Listing

* PROCEDURE EQUIPREV.PRG

* AUTHORS  : LCDR EDWARD J. CASE, SC, USN
*            : LCDR WINSTON H. BUCKLEY, SC, USN
*            : LCDR ROBERT F. BRADO, SC, USN
*            : LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE  : TO ENABLE THE USER TO REVIEW ALL RECORDS IN THE
*            : EQUIPMENT DATABASE.

* INPUT FILES  : EQUIP.DBF INDEX EQUIPSIT.NDX
* OUTPUT FILES : NONE

* CALLED BY  : EQUIPCMD.PRG

* MODULES CALLED : DELAY.PRG

* GLOBAL VARIABLE: HDATE, HI<<<<<<<<<<<<<<<<<<< 23 DECEMBER 1985 = = =
* LOCAL VARIABLES: CURRENTNO, EOF, ERROR, FIRST REC, LAST REC, MCLIN,
* MDESCFT, MESSAGE, MSITE, MFILE, TOF

* DATE LAST TIME MODIFIED = = = = = = = = = = = = = = = = =

* CASE SELECTION = 2  REVIEW EQUIPMENT FILE RECORDS

* USE EQUIPMENT DATABASE INDEXED ON SITE NUMBER AND WAIT FOR THE
* USER TO INPUT THE SITE NUMBER, THEN START REVIEWING FROM THAT POINT.

SET ESCAPE OFF
SET TALK OFF
SELECT 1
USE EQUIP
GO TOP
SET COLOR TO W+/B, W+/B, B
CLEAR
IF EOF() = .T. THEN
SET COLOR TO W+/R, W+/R
@ 13,24 SAY "The EQUIPMENT Database is EMPTY!"
DO DELAY
RETURN
ENDIF
?? FLASH + "S.EQUIPREV.SCR/"
@ 24,0 SAY SPACE (80)
STORE "Enter 00 to start at TOF, 99 to start at EOF, or a site number " ;
"between 01 and 58 " TO MESSAGE
SET COLOR TO /W, /W
@ 24,0 SAY MESSAGE
STORE '88' TO MSITE
DO WHILE .NOT. ((MSITE > '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
    SET COLOR TO /BR, /BR
    STORE '00' TO MSITE
    @ 9,20 GET MSITE PICT '99'
    READ
    IF .NOT. ((MSITE > '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
        SET COLOR TO W/B, W/B
        @ 24,0 SAY SPACE(80)
        SET COLOR TO W+/R, W+/R
        STORE 'Response must be between ' + LOSITE + ' and ' + HISITE + ', Zero (00) or 99 ' TO ERROR
        @ 24,13 SAY ERROR
        DO DELAY
        SET COLOR TO /W, /W
        @ 24,0 SAY MESSAGE
        LOOP
    ELSE
        IF (MSITE = '00' .OR. MSITE = '99') THEN
            USE EQUIP
            IF MSITE = '00' THEN
                GO BOTTOM
                STORE RECNO() TO LAST_REC
                GO TOP
                STORE RECNO() TO FIRST_REC
                ELSE
                    IF MSITE = '99' THEN
                        GO TOP
                        STORE RECNO() TO FIRST_REC
                        GO BOTTOM
                        STORE RECNO() TO LAST_REC
                        ENDF MSITE = '99'
                        ENDF MSITE = '00'
                        ELSE
                        USE EQUIP INDEX EQUIPSIT, EQUIPPRFJ, EQUIPDAr, EJIPSD
                        GO TOP
                        FIND &MSITE
                        IF EOF() = .T. THEN
                            SET COLOR TO W/B, W/B
                            @ 24,0 SAY SPACE(80)
                            STORE "No records exist for site number " + MSITE + "", try again " TO ERROR
                            SET COLOR TO W+/R, W+/R
                            @ 24,16 SAY ERROR
                            DO DELAY
                            SET COLOR TO /W, /W
                            @ 24,0 SAY MESSAGE
                            STORE '88' TO MSITE
                            ENDF
                            ENDF
                            END
APPENDIX B: MAINTENANCE MANUAL

Page 3

EQUIPREV.PRG Program Listing

101    ENDDO WHILE
102
103    STORE SPACE(10) + 'Enter "00" to start at TOF or a six digit', +
104        'feature number' + SPACE(10) TO MESSAGE
105    IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
106        SET COLOR TO /W, /W
107        @ 24,0 SAY MESSAGE
108        DO WHILE .T.
109            SET COLOR TO /BR, /BR
110            STORE '00 ' TO MFEAT
111            @ 14,45 GET MFEAT PICT '999999'
112            READ
113            IF .NOT. ((MFEAT >= LOPNUM .AND. MFEAT <= HIRNUM) .OR.;
114                MFEAT = '00 ' .OR. MFEAT = '99 ')
115                SET COLOR TO W/B, W/B
116                @ 24,0 SAY SPACE(80)
117                SET COLOR TO W+R, W+R
118                STORE ' ' Response must be between ' + LOPNUM + ' and ' +;
119                HIRNUM + ', Zero (00) or 99 ' TO ERROR
120                @ 24,8 SAY ERROR
121                DO DELAY
122                SET COLOR TO /W, /W
123                @ 24,0 SAY MESSAGE
124                LOOP
125        ELSE
126            IF MFEAT = '00 ' THEN
127                EXIT
128            ENDIF
129            IF (MFEAT >= LOPNUM .AND. MFEAT <= HIRNUM)
130                STORE MSITE + MFEAT TO MKEY
131                USE EQUIP INDEX EQUIFDAT
132                GO TOP
133                FIND &MKEY
134            IF EOF() = .T. THEN
135                SET COLOR TO W/B, W/B
136                @ 24,0 SAY SPACE(80)
137                SET COLOR TO W+R, W+R
138                @ 24,12 SAY ' No record exists for feature number ' +;
139                MFEAT + ', try again'
140                DO DELAY
141                SET COLOR TO /W, /W
142                @ 24,0 SAY MESSAGE
143                LOOP
144            ELSE
145                EXIT
146            ENDIF EOF() = .T.
147            ENDIF
148            ENDF (MFEAT >= LOPNUM .AND. MFEAT <= HIRNUM)
149        ENDDO WHILE
150    ENDF .NOT. (MSITE >= LOSITE .OR. MSITE <= HISITE)
* SET COLOR TO W/B, W/B
153 @ 24,0 SAY SPACE(80)
154 STORE " At beginning of records for site number " + ;
155 MSITE + " " TO TOP
156 STORE " At end of records for site number " + MSITE + " " TO EOF
157 DO WHILE .T.
158 SET COLOR TO R+/B, R+/B
159 @ 6,47 SAY RECNO() PICT "999"
160 STORE FEATURENO 110 MFEATI'
161 SELECT 2
162 USE DESCRIPT INDEX DESCRIP
163 FIND &MFEAT
164 STORE CLIN TO MCLIN
165 STORE DESCIPT TO MDESCRIP
166 SELECT 1
167 SET COLOR TO /BR, /BR
168 @ 9,20 SAY SITENx"O PICTr "99"
169 @ 9,68 SAY EFFDATE PICT "9999999"
170 @ 13,45 SAY MCLIN PICT "9999"
171 @ 14,45 SAY FEATURENO PICT "99999999"
172 @ 15,45 SAY MDESCRIP PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"
173 @ 16,45 SAY QTY PICT "999"
174 @ 18,50 SAY UNIT_PRICE PICT "99999999.99".
175 @ 19,50 SAY M_MAINT PICT "99999999.99"
176 @ 20,53 SAY UNIT_INSTA PICT "999999.99"
177 SET COLOR TO R+/B, R+/B
178 STORE "N" TO CHOICE
179 @ 22,68 GET CHOICE PICT "!
180 READ
181 * ENSURE THAT THE USER'S PROMPT IS EITHER "N", "P" OR "X"
182 * DO WHILE .NOT. (CHOICE = "N" ,OR. CHOICE = "P" ,OR. CHOICE = "X")
183 IF .NOT. (CHOICE = "N" ,OR. CHOICE = "P") ,OR. CHOICE = "X") THEN
184 SET COLOR TO W+/R, W+/R
185 @ 24,23 SAY " Response must be either N, P or X "
186 DO DELAY
187 STORE "N" TO CHOICE
188 ENDIF
189 SET COLOR TO R+/B, R+/B
190 @ 22,68 GET CHOICE PICT "!
191 READ
192 * ENDIF
193 * ENDDO
194 * SKIP TO THE NEXT RECORD TO BE REVIEWED
195 * IF CHOICE = "N" THEN
196 IF (MSITE = WSITE ,AND. MSITE <= WSITE) THEN
197 SKIP
EQUIPREV.PRG Program Listing

201 IF EOF() = .T. THEN
  202   SKIP - 1
  203   SET COLOR TO W+/R, W+/R
  204   @ 24,21 SAY EOF
  205   DO DELAY
  206 ELSE
  207   IF .NOT. (SITENO = MSITE) THEN
  208     SKIP - 1
  209     SET COLOR TO W+/R, W+/R
  210     @ 24,21 SAY EOF
  211     DO DELAY
  212     ENDIF
  213     ENDIF EOF() = .T.
  214 ELSE
  215   IF RECNO() = LAST_REC THEN
  216     GO TOP
  217   ELSE
  218     SKIP
  219     ENDIF
  220   ENDIF (MSITE >= LOSITE .AND. MSITE <= HISITE)
  221   ENDIF CHOICE = "N"
  222 *
  223 * SKIP TO THE PREVIOUS RECORD
  224 *
  225 IF CHOICE = "P" THEN
  226   STORE RECNO() TO CURRENTNO
  227   IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
  228     SKIP - 1
  229     IF EOF() = .T. THEN
  230       GOTO CURRENTNO
  231     SET COLOR TO W+/R, W+/R
  232     @ 24,16 SAY TOP
  233     DO DELAY
  234 ELSE
  235     IF .NOT. (SITENO = MSITE) THEN
  236       SKIP
  237     SET COLOR TO W+/R, W+/R
  238     @ 24,16 SAY TOP
  239     DO DELAY
  240     ENDIF
  241     ENDIF EOF() = .T.
  242 ELSE
  243   IF RECNO() = FIRST_REC THEN
  244     GOTO BOTTOM
  245   ELSE
  246     SKIP - 1
  247     ENDIF
  248   ENDIF (MSITE >= LOSITE .AND. MSITE <= HISITE)
  249   ENDIF CHOICE = "P"
  250 *
APPENDIX B: MAINTENANCE MANUAL

Page 6

EQUIPREV.PRG Program Listing

251  * USER HAS DECIDED TO EXIT THE REVIEW
252  *
253    IF CHOICE = "X"
254      EXIT
255    ENDF
256  ENDDO WHILE .T.
257  *
258  * RETURN TO CALLING PROGRAM.
259  *
260  RELEASE ALL LIKE M*, CURRENTNO, EOF, ERROR, FIRST_REC, LAST_REC, TUF
261  CLOSE DATABASES
262  RETURN
263  *******************************************************
* PROCEDURE EQUIPUPD.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
LCDR WINSTON H. BUCKLEY, SC, USN
LCDR ROBERT F. BRADO, SC, USN
LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : TO ENABLE THE USER TO MODIFY ANY DATA ELEMENT IN
THE EQUIPMENT DATABASE.

* INPUT FILES : EQUIP.DBF, INDICES: EQUIPPRJ.NDX, EQUIPSIT.NDX
EQUIPDAT.NDX, EQUIPSD.NDX

* OUTPUT FILES : EQUIP.DBF, INDICES: EQUIPPRJ.NDX, EQUIPSIT.NDX
EQUIPDAT.NDX, EQUIPSD.NDX

* CALLED BY : EQUIPCMD.PRG

* MODULES CALLED : DELAY.PRG

* GLOBAL VARIABLE: HIDATE, HIFNUM, HISITE, LODATE, LOFNUM, LOSITE

* LOCAL VARIABLES: MEFFDATE, MSITE, ISIIE, MFEAT, MPRICE,
MAINT, MINSTALL, MQTY, MESSAGE
ACCEPT, CHOICE, CURRENTNO, DF, ERROR, FIRST_REC,
INTRO, LAST_REC, TOF

* DATE LAST TIME MODIFIED = 23 DECEMBER 1985

* CASE SELECTION = 1 UPDATE EXISTING RECORDS

* USE EQUIPMENT DATABASE USING THE SITE NUMBER INDEX, BUT UPDATING
* ALL EQUIP FILE RELATED INDICES, ASK THE USER TO INPUT A SITE
* NUMBER THEN START UPDATING FROM THAT POINT.

SET ESCAPE OFF
SET TALK OFF
USE EQUIP
GO TOP
SET COLOR TO W+/B, W+/B, B
CLEAR
IF DF() = .T. THEN
SET COLOR TO W+/R, W+/R
13,24 SAY " The EQUIPMENT Database is EMPTY! "
DO DELAY
RETURN
ENDIF
?? FLASH = "S.EQUIPUPD.SCR"
24,0 SAY SPACE(80)
STORE "Enter 00 to start at TOF, 99 to start at DF, or a site " +;
APPENDIX B: MAINTENANCE MANUAL

EQUIPUPD.PRG Program Listing

51 "number between " + LOSITE + " and " + HISITE + " TO MESSAGE
52 SET COLOR TO /W, /W
53 @ 24,0 SAY MESSAGE
54 STORE '88' TO MSITE
55 DO WHILE .NOT. ((MSITE >= '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
56 SET COLOR TO /BR, /BR
57 STORE '00' TO MSITE
58 @ 8,20 GET MSITE PICT '99'
59 READ
60 IF .NOT. ((MSITE >= '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
61 SET COLOR TO W/B, W/B
62 @ 24,0 SAY SPACE(80)
63 SET COLOR TO W+/R, W+/R
64 STORE 'Response must be between ' + LOSITE + ' and ' + HISITE +
65 ' Zero (00) or 99' TO ERROR
66 @ 24,13 SAY ERROR
67 DO DELAY
68 SET COLOR TO /W, /W
69 @ 24,0 SAY MESSAGE
70 LOOP
71 ELSE
72 IF (MSITE = '00' .OR. MSITE = '99') THEN
73 USE EQUIP
74 IF MSITE = '00' THEN
75 GO BOTTOM
76 STORE RECN0() TO LAST_REC
77 GO TOP
78 STORE RECN0() TO FIRST_REC
79 ELSE
80 IF MSITE = '99' THEN
81 GO TOP
82 STORE RECN0() TO FIRST_REC
83 GO BOTTOM
84 STORE RECN0() TO LAST_REC
85 ENDIF MSITE = '99'
86 ENDIF MSITE = '00'
87 ELSE
88 USE EQUIP INDEX EQUIPSIT, EQUIPPRJ, EQUIPDAT, EQUIPSD
89 GO TOP
90 FIND MSITE
91 IF EOF() = .T. THEN
92 SET COLOR TO W/B, W/B
93 @ 24,0 SAY SPACE(80)
94 STORE "No records exist for site number " + MSITE +
95 " try again " TO ERROR
96 SET COLOR TO W+/R, W+/R
97 @ 24,16 SAY ERROR
98 DO DELAY
99 SET COLOR TO /W, /W
100 @ 24,0 SAY MESSAGE
APPENDIX B: MAINTENANCE MANUAL

EQUIPUPD.PRG Program Listing

Page 3

STORE '88' TO MSITE
ENDIF
ENDIF
ENDDO WHILE .NOT. ((MSITE >= '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
STORE SPACE(10) + 'Enter "00 " to start at TOF or a six digit ' +
'feature number' + SPACE(10) TO MESSAGE
IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
SET COLOR TO /W, /W
@ 24,0 SAY MESSAGE
DO WHILE .T.
  SET COLOR TO /BR, /BR
  STORE '00 ' TO MFEAT
  @ 11,45 GET MFEAT PICT '999999'
  READ
  IF .NOT. ((MFEAT = LOFNUM .AND. MFEAT <= HIFNUM) .OR.;
    MFEAT = '00 ' .OR. MFEAT = '99 ')
    SET COLOR TO W/B, W/B
    @ 24,0 SAY SPACE(80)
    SET COLOR TO W+/R, W+/R
    STORE ' Response must be between ' + LOFNUM + ' and ' +
    'HI9NUM + ', Zero (00) or 99 ' TO ERROR
    @ 24,8 SAY ERROR
    DO DELAY
    SET COLOR TO /W, /W
    @ 24,0 SAY MESSAGE
    LOOP
ELSE
  IF MFEAT = '00 ' THEN
    EXIT
ENDIF
IF (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
STORE MSITE + MFEAT TO MKEY
USE EQUIP INDEX EQUIPDATA
GO TOP
FIND &MKEY
IF EOF() = .T. THEN
  SET COLOR TO W/B, W/B
  @ 24,0 SAY SPACE(80)
  SET COLOR TO W+/R, W+/R
  STORE ' No record exists for feature number ' +
  'MFEAT + ', try again ' TO ERROR
  @ 24,12 SAY ERROR
  DO DELAY
  SET COLOR TO /W, /W
  @ 24,0 SAY MESSAGE
  EXIT
ELSE
  EXIT

308
EQUIPUPD.PRG Program Listing

151  ENDIF EOF() = .T.
152  ENDIF (MFEAT => LOGNUM .AND. MFEAT <= HIFNUM)
153  ENDIF
154  ENDDO WHILE .T.
155  ENDIF (.NOT. (MSITE => LOGSITE .OR. MSITE <= HISITE)
156  *
157  SET COLOR TO W/B, W/B
158  @ 24,0 SAY SPACE(80)
159  STORE " At beginning of records for site number " +;
160  MSITE + " " TO TOF
161  STORE " At end of records for site number " + MSITE + " " TO EOF
162  STORE SPACE(16) + 'Press "Page Down" key to terminate record update' +;
163  SPACE(16) TO MESSAGE
164  STORE 1 TO INTRO
165  DO WHILE .T.
166  SET COLOR TO /W, /W
167  @ 24,0 SAY MESSAGE
168  *
169  * STORING THE OLD RECORD TO A WORK RECORD AREA. THE M PREFIX
170  * INDICATES MEMORY VARIABLES DISTINGUISHING THEM FROM THEIR
171  * CORRESPONDING DATABASE FIELDS.
172  *
173  STORE UNITPRICE TO MPRICE
174  STORE M_MAINT TO MMAIN
175  STORE UNITINSTA TO MINSTALL
176  STORE QTY TO MQTY
177  STORE FEATURENO TO MFEAT
178  SELECT 2
179  USE DESCRIPT INDEX DESCRIPT
180  FIND AMFEAT
181  STORE DESCRIPT TO MDESCRIPT
182  SELECT 1
183  *
184  * INFORM THE USER OF HOW TO TERMINATE THE UPDATE OF A RECORD
185  *
186  IF INTRO = 1 THEN
187    STORE 0 TO INTRO
188    ?? FLASH + "W.EQUIPUPD/"
189    SET CONSOLE OFF
190    WAIT TO ANS
191    SET CONSOLE ON
192    ENDIF
193  *
194  SET COLOR TO R+/B, R+/B
195  a 5,47 SAY RECORD() PICT "999"
196  SET COLOR TO /BR, /BR
197  a 8,20 SAY ITEMNO PICT "99"
198  a 8,68 SAY EFFDATE PICT "999999"
199  a 11,45 SAY MFEAT PICT "999999"
200  a 12,45 SAY MDESCRIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
APPENDIX B: MAINTENANCE MANUAL

Page 173

EQUIPUPD.PRG Program Listing

201 @ 13,45 SAY MQTY PICT "999"
202 @ 15,50 GET MPRICE PICT "99999999.99"
203 @ 16,50 GET MMAINT PICT "99999999.99"
204 @ 17,53 GET MINSTALL PICT "9999.99"
205 READ
206 SET COLOR TO W/B, W/B
207 @ 24,0 SAY SPACE(80)
208 *
209 IF .NOT. (QTY=MQTY .AND. UNIT PRICE=MPRICE .AND.;
210 NO_MAINT=MMAINT .AND. UNIT_INSTA=MINSTALL) THEN
211 *
212 *
213 *  ASK THE USER IF HE/SHE DESIRES TO ACCEPT THE CHANGES.
214 *
215 SET COLOR TO W+/B, W+/B
216 @ 19,12 SAY "Do you want to accept the changes? (Yes or No): "
217 SET COLOR TO R+/B, R+/B
218 @ 19,49 SAY "Y"
219 @ 19,56 SAY "N"
220 STORE "N" TO ACCEPT
221 @ 19,62 GET ACCEPT PICT ":"
222 READ
223 *
224 *  ENSURE THAT THE USER'S PROMPT IS EITHER "Y" OR "N"
225 *
226 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
227 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
228 SET COLOR TO W/B, W/B
229 @ 24,0 SAY SPACE(80)
230 SET COLOR TO W+/R, W+/R
231 @ 24,24 SAY "Response must be either N or Y"
232 DO DELAY
233 STORE "N" TO ACCEPT
234 ENDIF
235 SET COLOR TO R+/B, R+/B
236 @ 19,62 GET ACCEPT PICT ":"
237 READ
238 @ 19,62 SAY " "
239 *
240 IF ACCEPT = "Y" THEN
241 REPLACE UNIT PRICE WITH MPRICE
242 REPLACE NO_MAINT WITH MMAINT
243 REPLACE UNIT_INSTA WITH MINSTALL
244 REPLACE QTY WITH MQTY
245 ENDIF
246 ENDIF
247 *
248 SET COLOR TO W/B, W/B
249 @ 19,10 SAY SPACE(60)
250 SET COLOR TO R+/B, R+/B
STORE "N" TO CHOICE
252 \$ 21,68 GET CHOICE PICT ":
253 READ
254 * ENSURE THAT THE USER'S PROMPT IS EITHER "N", "P" OR "X"
255 *
256 * DO WHILE .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X")
257 IF .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X") THEN
258 SET COLOR TO W/B, W/B
259 \$ 24,0 SAY SPACE(80)
260 SET COLOR TO W+/R, W+/R
261 \$ 24,23 SAY " Response must be either N, P or X "
262 DO DELAY
263 STORE "N" TO CHOICE
264 ENDIF
265 SET COLOR TO W+/R, W+/R
266 \@ 24,21 SAY EOF
267 ENDIF
268 ENDIF
269 ENDDO
270 * SKIP TO THE NEXT RECORD TO BE REVIEWED
271 *
272 * IF CHOICE = "N" THEN
273 IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
274 IF EOF() = .T. THEN
275 IF EOF() = .T. THEN
276 IF EOF() = .T. THEN
277 SET COLOR TO W+/R, W+/R
278 \$ 24,21 SAY EOF
279 DO DELAY
280 ELSE
281 ELSE
282 ELSE
283 IF EOF() = .T. THEN
284 IF EOF() = .T. THEN
285 IF EOF() = .T. THEN
286 SET COLOR TO W+/R, W+/R
287 \$ 24,21 SAY EOF
288 DO DELAY
289 ELSE
290 ELSE
291 ELSE
292 ELSE
293 ELSE
294 ELSE
295 ELSE
296 ENDIF
297 ENDIF
298 * IF CHOICE = "N" THEN
299 *
APPENDIX B: MAINTENANCE MANUAL

EQUIPUPD.PRG Program Listing

301 | STORE RECCNO() TO CURRENTNO
302 | IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
303 |   SKIP - 1
304 |   IF BOF() = .T. THEN
305 |     GOTO CURRENTNO
306 |   SET COLOR TO W+/R, W+/R
307 |   @ 24,16 SAY TOF
308 |   DO DELAY
309 | ELSE
310 |   IF .NOT. (SITENO = MSITE) THEN
311 |     SKIP
312 |     SET COLOR TO W+/R, W+/R
313 |   @ 24,16 SAY TOF
314 |   DO DELAY
315 | ENDIF
316 | ENDIF BOF() = .T.
317 | ELSE
318 | IF RECCNO() = FIRST_REC THEN
319 |   GO BOTTOM
320 | ELSE
321 |   SKIP - 1
322 | ENDIF
323 | ENDIF (MSITE >= LOSITE .AND. MSITE <= HISITE')
324 | ENDIF CHOICE = "P"
325 | *
326 | * USER HAS DECIDED TO EXIT THE REVIEW
327 | *
328 | IF CHOICE = "X"
329 | EXIT
330 | ENDIF
331 | *
332 | ENDDO WHILE .T.
333 | *
334 | * RETURN TO CALLING PROGRAM.
335 | *
336 | RELEASE ALL LIKE NAME, ACCEPT, CHOICE, CURRENTNO, BOF, ERROR,;
337 | FIRST_REC, INTRO, LAST_REC, TOF
338 | CLOSE DATABASES
339 | RETURN
340 | *************************************************************************
APPENDIX B: MAINTENANCE MANUAL

MAINMENU.PRG Program Listing

* PROCEDURE MAINMENU.PRG

* AUTHORS: LCDR EDWARD J. CASE, SC, USN
LCDR WINSTON H. BUCKLEY, SC, USN
LCDR ROBERT F. BRAIMO, USN
LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE: PROVIDE THE USER THE CHOICE OF LOADING A NEW DELIVERY,
ORDER, MAINTAINING THE EQUIPMENT, MANUAL, AND
SERIAL NUMBER DATA BASES OR GETTING A SERIES OF
REPORTS FROM THESE UPDATED DATABASES.

* INPUT FILES: NONE.

* OUTPUT FILES: NONE.

* CALLED BY: SELECTOR.PRG

* MODULES CALLED: NEWLOCMD.PRG, EQUIPCMD.PRG, MANULCMD.PRG,
SERVOCMD.PRG, REPORTCMD.PRG, DESPMOD.PRG,
CUEMOD.PRG, DELAY.PRG, MAINTDO.PRG, MKLABELS.PRG

* GLOBAL VARIABLES: HDATE, HIPNUM, HISITE, LOCATE, LOFNUM, LOSTITE

* LOCAL VARIABLES: ANS

* DATE LAST TIME MODIFIED: 23 DECEMBER 1985

* DBASE PROGRAM CONFIGURATION VARIABLES:

SET BELL OFF
SET CONSOLE ON
SET INTENSITY OFF
SET SCOREBOARD OFF
SET TALK OFF
PUBLIC HDATE, HIPNUM, HISITE, LOCATE, LOFNUM, LOSTITE

* INITIALIZE THE PUBLIC VARIABLES

STORE '001231' TO HDATE
STORE '094001' TO HIPNUM
STORE '59' TO HISITE
STORE '840101' TO LDATE
STORE '009101' TO LOFNUM
STORE '01' TO LOSTITE

* DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE USER'S CHOICE.

STORE "1" TO ANS
DO WHILE .T.
FLASH = CHR(145)
SET COLOR TO W/B, W/B, B
?? FLASH + "S.MAINMENU.SCR/
@ 24,0 SAY SPACE (80)
SET COLOR TO R+/B, R+/B
@ 22,53 GET ANS PICT "9"
READ
* PERFORM APPROPRIATE TASK BASED ON THE USER'S CHOICE.
DO CASE
* CALL THE NEW DELIVERY ORDER LOAD COMMAND PROGRAM.
CASE ANS = "1"
DO NEWDOCMD
STORE "1" TO ANS
* CALL THE EQUIPMENT FILE MAINTENANCE COMMAND PROGRAM.
CASE ANS = "2"
DO EQUIPCMD
STORE "2" TO ANS
* CALL THE DESCRIPTION FILE MAINTENANCE COMMAND PROGRAM.
CASE ANS = "3"
DO DESPMOD
STORE "3" TO ANS
* CALL THE SITE CONFIGURATION FILE MAINTENANCE COMMAND PROGRAM.
CASE ANS = "4"
DO CONFMD
STORE "4" TO ANS
* CALL THE MANUAL FILE MAINTENANCE COMMAND PROGRAM.
CASE ANS = "5"
DO MANULCMD
STORE "5" TO ANS
* CALL THE SERIAL NUMBER MAINTENANCE COMMAND PROGRAM.
CASE ANS = "6"
DO SERDOCMD
STORE "6" TO ANS
* CALL THE REPORTS GENERATION COMMAND PROGRAM.
CASE ANS = "7"
DO REPORCMD
STORE "7" TO ANS
* CALL THE MAINTENANCE DELIVERY ORDER GENERATION PROGRAM
CASE ANS = "8"
DO MAINTUL
APPENDIX B: MAINTENANCE MANUAL

Page 3

MAINMENU.PRG Program Listing

101 | STORE "8" TO ANS
102 | *
103 | * CALL THE MAILING LABELS GENERATION PROGRAM
104 | CASE ANS = "9"
105 | DO MKLABELS
106 | STORE "9" TO ANS
107 | *
108 | * RETURN THE USER TO SELECTOR PROGRAM CONTROL.
109 | CASE ANS = "0"
110 | CLOSE DATABASES
111 | RETURN
112 | *
113 | ENDCASE
114 | *
115 | * CONTINUE PROCESSING LOOP CONTROL CHECK.
116 | *
117 | ENDDO WHILE .T.
118 | ************************************************************************

315
PROCEDURE MAINTDO.PRG

AUTHORS: LCDR EDWARD J. CASE, SC, USN
          LCDR WINSTON H. BUCKLEY, SC, USN
          LCDR ROBERT F. BRADO, USN
          LCDR ROBERT L. BEARD III, SC, USN

PURPOSE: PROVIDE THE INPUTS FOR A MAINTENANCE DELIVERY ORDER, WHICH WILL BE IMPORTED INTO LOTUS 1-2-3.

INPUT FILES: EQUIP.DBF, DESCRIP.DBF, DESCRIP.NDX, TEMPONE.DBF
             EFEAT.NDX, TEMPTWO.DBF, TEMPTHIREE.DBF, TEMPFOUR.DBF

OUTPUT FILE: NEWDO.PRN

CALLED BY: MAINMENU.PRG

MODULES CALLED: DELAY.PRG

GLOBAL VARIABLE: HISITE, LOSITE

LOCAL VARIABLES: ERROR, MESSAGE, MSITE, NOFIND, RATES, SITES

DATE LAST TIME MODIFIED: 27 DECEMBER 1985

SET ESCAPE OFF
SET TALK OFF
SET COLOR TO W/B, W/B, W
CLEAR

?? FLASH + "S.MAINITO.SCR/
24,0 SAY SPACE(80)
STORE " Enter the number of the site for which the maintenance is " 
"to be performed " TO SITES
STORE SPACE(20) + " Enter the Discount and Escalation Rates ",
SPACE(20) TO RATES
SET COLOR TO /BR, /BR
20,57 SAY " NEWDO.PRN 

* OBTAIN THE NUMBER OF THE SITE TO RECEIVE THE MAINTENANCE FROM THE USER

* USE EQUIP INDEX EQ Inputs.NDX

DO WHILE .T.
7 SET COLOR TO /w, /w
   24,0 SAY SITES
   SET COLOR TO R*/R, R*/R
   STORE LOSITE TO MSITE
   04,65 GET MSITE PICT 'm'
   READ
   IF .NOT. (MSITE > HISITE) AND. MSITE <= HISITE) THEN

116
SET COLOR TO W/B, W/B
@ 24,0 SAY SPACE(80)
SET COLOR TO W+/R, W+/R
STORE ' Response must be between ' + LOSITE +;
' and ' + HISITE + ' TO ERROR
@ 24,22 SAY ERROR
DO DELAY
LOOP
ELSE
GO TOP
FIND &MSITE
IF EOF() = .T. THEN
SET COLOR TO W/B, W/B
@ 24,0 SAY SPACE(80)
SET COLOR TO W+/R, W+/R
STORE " No records for site number " + &MSITE +;
" exist, try again " TO MESSAGE
@ 24,16 SAY MESSAGE
DO DELAY
LOOP
ELSE
EXIT
ENDIF EOF() = .T.
ENDIF .NOT. (MSITE := LOSITE .AND. MSITE <= HISITE)
ENDDO WHILE .T.
*
* ENSURE THAT TEMPORARY DATABASES DO NOT EXIST, IF SO ERASE THEM
*
SET CONSOLE OFF
ERASE TEMPONE.DBF
ERASE TEMPONE.NDX
ERASE TEMPTWO.DBF
ERASE TEMPTHRE.DBF
ERASE TEMPFOR.DBF
SET CONSOLE ON
*
* INFORM THE USER THAT THERE WILL BE A SLIGHT DELAY
*
SET COLOR TO W+/R, W+/R
STORE SPACE(10) + "Creating a temporary database and index. " +
"PLEASE BE PATIENT " + SPACE(10) TO MESSAGE
@ 24,0 SAY MESSAGE
COPY TEMPONE.DBF WHILE SITENO = "&MSITE" 
USE TEMPONE
INDEX ON FEATURENO TO TEMPONE
TOTAL ON FEATURENO TO TEMPTWO.DBF FIELDS Qty WHILE FEATURENO <> 'XXXXXX'
*
* OBTAIN THE DISCOUNT AND ESCALATION RATES FROM THE USER
*
SET COLOR TO /W, /W
@ 24,0 SAY RATES
STORE "0.000" TO LCNHWRATE
STORE "0.000" TO LCNSWRATE
STORE "0.000" TO SNETSWRATE
STORE "0.000" TO UPLIFT
SET COLOR TO /BR, /BR
@ 14,61 GET LCNHWRATE PICT "9.999"
@ 15,61 GET LCNSWRATE PICT "9.999"
@ 16,61 GET SNETSWRATE PICT "9.999"
@ 17,61 GET UPLIFT PICT "9.999"
READ
* ASK TO USER TO VERIFY THAT HE/SHE WANTS TO CONTINUE
SET COLOR TO W+/B, W+/B
@ 24,0 SAY SPACE(80)
@ 22,22 SAY "Do you want to Continue or exit? ")
SET COLOR TO R+/B, R+/B
@ 22,37 SAY "C"
@ 22,50 SAY "X"
STORE "C" TO CHOICE
@ 22,56 GET CHOICE PICT "!
READ
*   ENSURE THAT THE USER'S RESPONSE IS EITHER "N", "P" OR "X"
* DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
  IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
    SET COLOR TO W+/R, W+/R
    @ 24,24 SAY " Response must be either C or X ")
    DO DELAY
    STORE "C" TO CHOICE
  ENDIF .NOT. (CHOICE = "C" .OR. CHOICE = "X")
  SET COLOR TO R+/B, R+/B
  @ 22,56 GET CHOICE PICT "!
  READ
ENDO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
*
SET COLOR TO W/B, W/B
@ 22,20 SAY SPACE(50)
IF CHOICE = "C" THEN
  STORE 1 + VAL(LCNHWRATE) TO LCNHWRATE
  STORE 1 + VAL(LCNSWRATE) TO LCNSWRATE
  STORE 1 + VAL(SNETSWRATE) TO SNETSWRATE
  STORE 1 + VAL(UPLIFT) TO UPLIFT
ELSE
  SET CONSOLE OFF
  CLOSE DATABASES
  ERASE TERMINP.DBF
  ERASE TERMINC.DBF
APPENDIX B: MAINTENANCE MANUAL

Page 4

MAINTDO.PRG Program Listing

151 ERASE TEMP1WO.DBF
152 ERASE TEMPTHRE.DBF
153 ERASE TEMPFOUR.DBF
154 SET CONSOLE ON
155 SET COLOR TO W/B, W/B
156 @ 24,0 SAY SPACE(80)
157 RELEASE ERROR, MESSAGE, MSITE, NOFIND, RATES, SITES
158 RETURN
159 ENDIF
160 *
161 * INFORM THE USER THAT THERE WILL BE A SLIGHT DELAY
162 *
163 SET COLOR TO W+/R, W+/R
164 STORE " Creating the MAINTENANCE DELIVERY ORDER may take up to 10 " ";
165 " minutes. PLEASE WAIT " TO MESSAGE
166 @ 24,0 SAY MESSAGE
167 SELECT 1
168 USE TEMP1WO
169 SELECT 2
170 USE DESCRIPT
171 SELECT TEMP1WO
172 JOIN WITH DESCRIPT TO TEMPTHRE FOR FEATURE$ = DESCRIPT->FEATURE$)
173 SELECT 3
174 USE TEMPTHRE
175 GO TOP
176 REPLACE ALL NO MAINT WITH BASEMAINT*LANDWRITE FOR FEATURE$ = "320100" .AND.
177 FEATURE$ < "420400"
178 GO TOP
179 REPLACE ALL NO MAINT WITH BASEMAINT*LANDWRITE FOR FEATURE$ = "550801"
180 REPLACE ALL NO MAINT WITH BASEMAINT*LANDWRITE FOR FEATURE$ = "550901"
181 REPLACE ALL NO MAINT WITH BASEMAINT*LANDWRITE FOR FEATURE$ = "551001"
182 REPLACE ALL NO MAINT WITH BASEMAINT*LANDWRITE FOR FEATURE$ = "551101"
183 REPLACE ALL NO MAINT WITH BASEMAINT*LANDWRITE FOR FEATURE$ = "551201"
184 REPLACE ALL NO MAINT WITH BASEMAINT*LANDWRITE FOR FEATURE$ = "551301"
185 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "550710"
186 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "550711"
187 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "550700"
188 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "550900"
189 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551000"
190 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551100"
191 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551200"
192 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551300"
193 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551400"
194 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551500"
195 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551600"
196 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551700"
197 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551800"
198 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "551900"
199 REPLACE ALL NO MAINT WITH BASEMAINT*SNWTWRITE FOR FEATURE$ = "552000"
200 SELECT 4
USE TED
COPY STRUCTURE TO TEMPFOUR
CLOSE DATABASES
USE TEMPFOUR
APPEND FROM TEMPTURE
GO TOP
REPLACE ALL MAINT_MOS WITH 12
REPLACE ALL MAINT_FAC WITH UPLIFT
REPLACE ALL MAINT_FAC WITH 1 FOR FEATURENO = "550801"
REPLACE ALL MAINT_FAC WITH 1 FOR FEATURENO = "550901"
REPLACE ALL MAINT_FAC WITH 1 FOR FEATURENO = "551001"
REPLACE ALL MAINT_FAC WITH 1 FOR FEATURENO = "551101"
REPLACE ALL MAINT_FAC WITH 1 FOR FEATURENO = "551201"
REPLACE ALL MAINT_FAC WITH 1 FOR FEATURENO = "551301"
REPLACE ALL TOT_MAINT WITH MAINT_FAC*MO_MAINT*MAINT_MOS
REPLACE ALL COMP_DT CR WITH (((UNIT_PRICE * UNIT_INSTA)/48) +
   (MO_MAINT * MAINT_FAC)) *.005
REPLACE ALL SYS_DT CR WITH (QTY*MO_MAINT*MAINT_FAC)
REPLACE ALL TOT_MAINT WITH TOT_MAINT*QTY FOR FEATURENO > "010200" .AND. ;
FEATURENO < "510101"
REPLACE ALL UNIT_PRICE WITH 0
REPLACE ALL TOT_PRICE WITH 0
REPLACE ALL UNIT_INSTA WITH 0
REPLACE ALL TOT_INSTAL WITH 0
COPY TO NEWDO.PRN DELIMITED
* 
* ERASE ALL TEMPORARY DATABASES AND INDICES CREATED DURING THE PROGRAM
* 
SET CONSOLE OFF
CLOSE DATABASES
ERASE TEMPONE.DBF
ERASE TEMPN.DO.DBF
ERASE TEMPTURE.DBF
ERASE TEMPFOUR.DBF
ERASE TEMPONE.NDX
SET CONSOLE ON
* 
* RETURN TO CALLING PROGRAM
* 
SET COLOR TO W/B, W/B
4 24,0 SAY SPACE(80)
RELEASE ERROR, MESSAGE, MSITE, Nؤول, RATES, STPS
RETURN
*******************************************************************************
* PROCEDURE MANULADD.PRG

* AUTHORS
   LCDR EDWARD J. CASE, SC, USN
   LCDR WINSTON H. BUCKLEY, SC, USN
   LCDR ROBERT F. BRADO, USN
   LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE
   ADD NEW MANUALS TO THE MANUAL DATABASE FILE.

* INPUT FILES
   MANUAL.DBF, MANULSIT.NDX

* CALLED BY
   MANULCMD.PRG

* MODULES CALLED
   DELAY.PRG

* GLOBAL VARIABLE
   HIFNUM, HISITE, LOFNUM, LOSITE

* LOCAL VARIABLES
   ACCEPT, CHOICE, ERROR, FEATURES, GESITE,
   MCLIN, MANDESCRPT, MDSCRIPT, MESSAGE, MFEAT,
   MSITE, NOFIND, NOSITE, SITES

* DATE LAST TIME MODIFIED
   23 DECEMBER 1985

CASE SELECTION = 1   ADD A NEW MANUAL DESCRIPTION

SET ESCAPE OFF
SET TALK OFF
USE MANUL
GO TOP
CLEAR

IF EOF() = .T. THEN
   SET COLOR TO W+/R, W+/R
   @ 13,25 SAY " The MANUALS Database is EMPTY! "
   DO DELAY
   RETURN
ENDIF

SELECT 1
USE MANUAL INDEX MANULSIT

?? FLASH + "S.MANUALS.SCR/"
@ 24,0 SAY SPACE(80)
@ 22,10 SAY SPACE(60)
SET COLOR TO GR+/B, GR+/B
@ 6,28 SAY " Last "
SET COLOR TO R+/ , R+/R
@ 3,26 SAY " MANUAL ADDITION FORMAT "
SET COLOR TO W+/R, W+/B
@ 22,23 SAY " Enter C to continue or X to exit: "
SET COLOR TO R+/B, R+/B
APPENDIX B: MAINTENANCE MANUAL

51 @ 22,29 SAY "C"
52 @ 22,46 SAY "X"
53 *
54 * GENERATE STATUS MESSAGES
55 *
56 STORE ' Enter a Site Number between ' + LOSITE + ' and ' + HISITE + ' for the Manual Description Addition
57 ' TO SITES
58 STORE ' Enter a Feature Number ( ' + LOFNUM + ' - ' + HIFNUM + ' ) + ;
59 ' for the Manual Description Addition ' TO FEATURES
60 STORE SPACE(20) + ' Enter the Manual Description to be Added' + ;
61 SPACE(20) TO MANDESCRP
62 *
63 DO WHILE .T.
64 SET COLOR TO R+/B, R+/B
65 @ 6,47 SAY RECNO() PICT "9999"
66 *
67 * CLEAR SCREEN AND SET INITIAL VALUES FOR VARIABLES TO BE
68 * ADDED TO THE FILE. THE M PREFIX INDICATES MEMORY VARIABLES
69 * DISTINGUISHING THEM FROM THEIR CORRESPONDING DATABASE FIELDS.
70 *
71 STORE ' ' TO MFILT
72 STORE ' ' TO MANDESC
73 *
74 SET COLOR TO /W, /W
75 @ 24,0 SAY SITES
76 *
77 * ENSURE THAT THE SITE NUMBER IS A VALID SITE
78 *
79 DO WHILE .T.
80 SET COLOR TO /BR, /BR
81 STORE LOSITE TO MSITE
82 @ 9,45 GET MSITE PICT '99'
83 READ
84 IF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
85 SET COLOR TO W/B, W/B
86 @ 24,0 SAY SPACE(80)
87 SET COLOR TO W+/R, W+/R
88 STORE ' Response must be between ' + LOSITE + ' and ' + HISITE + ' TO ERROR
89 @ 24,22 SAY ERROR
90 DO DELAY
91 SET COLOR TO /W, /W
92 @ 24,0 SAY SITES
93 LOOP
94 ELSE
95 END
96 @) TOP
97 FIND MSITE
98 IF BUF() = .T. THEN
99 SET COLOR TO W/B, W/B
100 @ 24,0 SAY SPACE(80)
APPENDIX B: MAINTENANCE MANUAL

MANULADD.PRG Program Listing

101 SET COLOR TO W+/R, W+/R
102 STORE "No records exist for site " + MSITE + "", try another site " to NOSITE
103 @ 24,16 SAY NOSITE
104 DO DELAY
105 SET COLOR TO /W, /W
106 @ 24,0 SAY SITES
107 STORE "99" TO MSITE
108 LOOP
109 ELSE
110 EXIT
111 ENDIF IF.EOF() .T.
112 ENDIF .NOT. (MSITE = LOSITE .AND. MSITE = HISITE)
113 ENDDO WHILE .T.
114 * (Q) BOTTOM
115 SET COLOR TO /W, /W
116 @ 24,0 SAY FEATURES
117 SET COLOR TO /BR, /BR
118 STORE 0 TO NOFIND
119 STORE "N" TO GETIOUT
120 * ENSURE THAT THE FEATURE IS A VALID FEATURE
121 * DO WHILE .NOT. (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
122 * IF THE USER HAS MADE THREE ATTEMPTS TO SPECIFY A VALID .PRN "FILE
123 * NAME AND HAS NOT BEEN SUCCESSFUL, ASK HIM/HER IF THEY DESIRI
124 * EXIT THIS PROCESS.
125 * IF NOFIND = 3 THEN
126 SET COLOR TO W+/B, W+/B
127 @ 19,15 SAY "Do you want to exit this process? (Yes or No): "
128 SET COLOR TO R+/B, R+/B
129 @ 19,51 SAY "Y"
130 @ 19,58 SAY "N"
131 STORE "Y" TO GETOUT
132 @ 19,63 GET GETOUT PIC "!"
133 READ
134 *
135 DO WHILE .NOT. (GETOUT = "Y" .OR. GETOUT = "y")
136 IF .NOT. (GETOUT = "Y" .OR. GETOUT = "y") THEN
137 SET COLOR TO W+/B, W+/B
138 @ 24,24 SAY "Response must be either "Y" or "
139 DO DELAY
140 STORE "Y" TO GETOUT
141 ENDF
142 SET COLOR TO R+/B, R+/B
143 @ 19,63 GET GETOUT PIC "!
144 READ

323
APPENDIX B: MAINTENANCE MANUAL

MANULADD.PRG Program Listing

151  ENDDO
152  SET COLOR TO W/B, W/B
153  @ 19,10 SAY SPACE(65)
154  IF GETOUT = "Y" THEN
155   EXIT
156  ELSE
157    STORE 0 TO NOFIND
158    SET COLOR TO /W, /W
159    @ 24,0 SAY FEATURES
160    LOOP
161  ENDF
162  ENDF
163  IF GETOUT = "Y" THEN
164     EXIT
165  ENDF
166  SET COLOR TO /BR, /BR
167  STORE LOFNUM TO MFEAT
168  @ 12,45 GET MFEAT PICT '999999'
169  READ
170  *
171  * ENSURE THAT THE FEATURE NUMBER ENTERED BY THE USER IS VALID
172  *
173  IF NOT (MFEAT >= LOFNUM AND MFEAT <= HIHNUM) THEN
174     SET COLOR TO W/B, W/B
175     @ 24,0 SAY SPACE(80)
176     SET COLOR TO W+/R, W+/R
177     STORE 'Response must be between ' + LOFNUM + ' and ' + HIHNUM + ' ' TO ERROR
178     @ 24,18 SAY ERROR
179     DO DELAY
180     SET COLOR TO /W, /W
181     @ 24,0 SAY FEATURES
182     ELSE
183       SELECT 2
184       USE EQUIP INDEX MFEAT
185       GO TOP
186       FIND MFEAT
187       IF EOF() = .T. THEN
188         NOFIND = NOFIND + 1
189         SET COLOR TO W/B, W/B
190         @ 24,0 SAY SPACE(80)
191         SET COLOR TO W+/R, W+/R
192         STORE "Feature Number " + MFEAT + ";
193         "does not exist, try again " TO MESSAGE
194         IF NOFIND < 3 THEN
195           @ 24,16 SAY MESSAGE
196           DO DELAY
197           SET COLOR TO /W, /W
198           @ 24,0 SAY FEATURES
199           EXIT
200       END
APPENDIX B: MAINTENANCE MANUAL

Page 5

MANULADD.PRG Program Listing

201 | ENDF
202 | STORE "999999" TO MFEAT
203 | SELECT 1
204 | ENDF IF(A1) = .T.
205 | ENDF .NOT. (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
206 | ENDO WHILE .NOT. (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
207 | *  
208 | SET COLOR TO W/B, W/B
209 | " 24,0 SAY SPACE(80)
210 | IF GETOUT = "Y" THEN
211 | EXIT
212 | ENDF
213 | SELECT 3
214 | USE DESCRIP INDEX DESCRIP
215 | GO TOP
216 | FIND &MFEAT
217 | STORE MCLIN TO MCLIN
218 | STORE MDESCIPT TO MDESCIPT
219 | SELECT 1
220 | SET COLOR TO /BR, /BR
221 | 13,45 SAY MCLIN PICT "9999"
222 | 14,45 SAY MDESCIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!"
223 | *
224 | SET COLOR TO /W, /W
225 | 24,0 SAY MANDESCRIPT
226 | SET COLOR TO /BR, /BR
227 | 17,45 GET MMANDESCRIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!"
228 | READ
229 | SET COLOR TO W/B, W/B
230 | 24,0 SAY SPACE(80)
231 | *
232 | IF .NOT. (MANDESCRIPT = MMANDESCRIPT) THEN
233 | *
234 | *  
235 | *  
236 | *  
237 | *  
238 | *  
239 | *  
240 | *  
241 | *  
242 | *  
243 | *  
244 | *  
245 | *  
246 | *  
247 | *  
248 | *  
249 | *  
250 | *  
325
MANULADD.PRG Program Listing

251 DO DELAY
252 STORE "N" TO ACCEPT
253 ENDF
254 SET COLOR TO R+/E, R+/B
255 @ 20,62 GET ACCEPT PICT "!"
256 READ
257 ENDDO
258 SET COLOR TO W/B, W/B
259 @ 20,10 SAY SPACE(55)
260 *
261 IF ENTRIES ARE CORRECT, ADD THEM TO DATABASE.
262 *
263 IF ACCEPT = "Y"
264 APPEND BLANK
265 REPLACE SITE_NO WITH MSITE
266 REPLACE FEATURENO WITH MFENT
267 REPLACE MANIDESC WITH MANIDESC
268 ENDF
269 *
270 ENDF
271 *
272 SET COLOR TO R+/B, R+/B
273 STORE "C" TO CHOICE
274 @ 22,58 GET CHOICE PICT "!
275 READ
276 *
277 ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
278 *
279 DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
280 IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
281 SET COLOR TO W+/R, W+/R
282 @ 24,24 SAY "Response must be either C or X"
283 DO DELAY
284 STORE "C" TO CHOICE
285 ENDF
286 SET COLOR TO R+/B, R+/B
287 @ 22,58 GET CHOICE PICT "!
288 READ
289 ENDDO
290 *
291 SKIP TO THE NEXT RECORD TO BE REVIEWED
292 *
293 IF CHOICE = "C" THEN
294 STORE " " TO MCLIN
295 STORE SPACE(30) TO MDESC
296 STORE SPACE(26) TO MNAME
297 SET COLOR TO /BR, /BR
298 @ 12,45 SAY " "
299 @ 13,45 SAY MCLIN PICT "9999"
300 @ 14,45 SAY MDESC PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
APPENDIX B: MAINTENANCE MANUAL

Page 7

MANULADD.PRG Program Listing

301 | a 17,45 SAY MMANDESC PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!"
302 | SKIP
303 | ENDF
304 | *
305 | * USER HAS DECIDED TO EXIT THE REVIEW
306 | *
307 | IF CHOICE = "X"
308 | EXIT
309 | ENDF
310 | *
311 | ENDDO WHILE .T.
312 | *
313 | * RETURN TO CALLING PROGRAM.
314 | *
315 | RELEASE ALL LIKE M*, ACCEPT, CHOICE, ERROR, FEATURES, GETOUT,;
316 | NOFIND, NOSITE, SITES
317 | CLOSE DATABASES
318 | RETURN
319 | **********************************************************************
**APPENDIX B: MAINTENANCE MANUAL**

**MANULMD.PRG Program Listing**

```
* PROCEDURE MANULCMD.PRG

* AUTHORS :
  LCDR EDWARD J. CASE, SC, USN
  LCDR WINSTON H. BUCKLEY, SC, USN
  LCDR ROBERT F. BRAO, USN
  LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE :
  PROVIDE THE USER THE OPPORTUNITY TO ADD A MANUAL
  RECORD, UPDATE AN EXISTING RECORD, DELETE AN EXISTING
  RECORD OR REVIEW CURRENT RECORDS.

* INPUT FILES : NONE.

* OUTPUT FILES : NONE.

* CALLED BY : MAINMENU.PRG

* MODULES CALLED : MANULADD.PRG, MANULUPD.PRG, MANULDEL.PRG,
  MANULREV.PRG

* LOCAL VARIABLES: SELEKT

* DATE LAST TIME MODIFIED =============== 23 DECEMBER 1985 ===============

* DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE SELECTION.

STORE "1" TO SELEKT
DO WHILE SELEKT < "5"
  SET COLOR TO W/B, W/B, B
  CLEAR
  ?? FLASH + "W.MANULCMD/
  SET CONSOLE OFF
  WAIT TO SELEKT
  SET CONSOLE ON

* PROCESS ROUTINE BASED ON THE USER'S SELECTION.

DO CASE

  CASE SELEKT = "1"
    DO MANULADD

  CASE SELEKT = "2"
    DO MANULUPD

  CASE SELEKT = "3"
    DO MANULDEL

```

328
PROGRAM LISTING

51 | *
52 | * CALL MANUAL REVIEW PROGRAM.
53 | CASE SELEKT = "4"
54 | DO MANULREV
55 | *
56 | * RETURN TO THE MAIN MENU PROGRAM.
57 | CASE SELEKT = "5"
58 | *
59 | ENDCASE
60 | *
61 | ENDDO (WHILE SELEKT < "5")
62 | *
63 | * RETURN TO THE CALLING PROGRAM
64 | *
65 | RETURN
66 | *********************************************
APPENDIX B: MAINTENANCE MANUAL

Page 1

MANULDEL.PRG Program Listing

* PROCEDURE MANULDEL.PRG

* AUTHORS
   : LCDR EDWARD J. CASE, SC, USN
   : LCDR WINSTON H. BUCKLEY, SC, USN
   : LCDR ROBERT F. BRADO, USN
   : LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE
   : DELETE MANUAL RECORDS FROM THE MANUAL DATABASE FILE.

* INPUT FILES
   : MANUAL.DBF, MANULSIT.NDX

* CALLED BY
   : MANULCMD.PRG

* MODULES CALLED
   : DELAY.PRG

* GLOBAL VARIABLE:
   : HIFNUM, HISITE, LOFNUM, LOSITE

* LOCAL VARIABLES:
   : ACCEPT, CHOICE, ERROR, FEATURES, FIRSTREC,
     LASTREC, MCLIN, MDESCIPT, MESSAGE, MFAT,
     MKEY, MMANDESC, MSITE, PACKEM, SITES

* DATE LAST TIME MODIFIED = 24 DECEMBER 1985

* CASE SELECTION = 3
   DELETE AN EXISTING MANUAL RECORD

SET DELETED ON
SET ESCAPE OFF
SET TALK OFF
USE MANUAL
GO TOP
CLEAR
IF EOF() = .T. THEN
  SET COLOR TO W+/B, W+/B, B
  @ 13,25 SAY "The MANUALS Database is EMPTY!"
  LO DELAY
  RETURN
ENDIF
DELAY
RETURN
SELECT 1
USE MANUAL INDEX MANULSIT
GO BOTTOM
STORE RECUO() TO LAST_REC
?? FLASH + "S.MANUALS.SCR/"
@ 24,0 SAY SPACE(80)
@ 22,10 SAY SPACE(60)
SET COLOR TO R+/ , R+/R
@ 3,26 SAY "MANUAL DELETION FORMAT"
SET COLOR TO W+/B, W+/B
@ 22,23 SAY "Enter C to continue or X to exit:"

330
SET COLOR TO R+/B, R+/B
\( \text{SET 22,29 \text{ S"}} \)
\( \text{SET 22,46 \text{ S"}} \)
STORE SPACE(9) + "Enter the Site Number for the Manual" +;
"Description to be Deleted" + SPACE(9) TO SITES
STORE SPACE(10) + "Enter the Feature Number for the Manual" +;
"Description Deletion" + SPACE(10) TO FEATURES
STORE "Records marked for deletion have been deleted and" +;
"CAN NOT be recovered" TO PACKEM
STORE "Are you sure you want to delete this description?" +;
"(Yes or No):" TO MESSAGE
\( \text{SET COLOR TO /W, /W} \)
\( \text{SET 24,0 \text{ S"}} \)
* ENSURE THAT THE SITE NUMBER IS A VALID SITE
* STORE ' ' TO MSITE
DO WHILE .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
\( \text{SET COLOR TO /BR, /BR} \)
STORE LOSITE TO MSITE
\( \text{SET 9,45 GET MSITE PICT '99'} \)
READ
IF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
\( \text{SET COLOR TO W+/B, W+/B} \)
\( \text{SET 24,0 \text{ S"}} \)
\( \text{SET COLOR TO W+/R, W+/R} \)
STORE 'Response must be between' + LOSITE +; 
'and' + HISITE +' TO ERROR
\( \text{SET 24,22 \text{ S"}} \)
DO DELAY
SET COLOR TO /W, /W
\( \text{SET 24,0 \text{ S"}} \)
LOOP
ELSE
GO TOP
FIND &MSITE
IF EOF() = .T. THEN
\( \text{SET COLOR TO W/B, W/B} \)
\( \text{SET 24,0 \text{ S"}} \)
\( \text{SET COLOR TO W+/R, W+/R} \)
STORE 'No record for site number'+ MSITE +;
'exists, try again' + TO ERROR
\( \text{SET 24,16 \text{ S"}} \)
DO DELAY
SET COLOR TO /W, /W
\( \text{SET 24,0 \text{ S"}} \)
STORE '99' TO MSITE
ENDIF EOF() = .T.
ENDIF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
APPENDIX B: MAINTENANCE MANUAL

MANULDEL.PRG Program Listing

101 ENDDO WHILE .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
102 *
103 SET COLOR TO W/B, W/B
104 @ 24,0 SAY SPACE(80)
105 STORE " " TO MFEAT
106 SET COLOR TO /W, /W
107 @ 24,0 SAY FEATURES
108 *
109 * ENSURE THAT THE FEATURE IS A VALID FEATURE
110 *
111 DO WHILE .NOT. (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
112 SET COLOR TO /BR, /BR
113 STORE LOFNUM TO MFEAT
114 @ 12,45 GET MFEAT PICT '999999'
115 READ
116 IF .NOT. (MFEAT <= LOFNUM .AND. MFEAT <= HIFNUM)
117 SET COLOR TO W/B, W/B
118 @ 24,0 SAY SPACE(80)
119 SET COLOR TO W+/R, W+/R
120 STORE ' Response must be between ' + LOFNUM + ' and ' + HIFNUM + ' ' TO ERROR
121 @ 24,18 SAY ERROR
122 DO DELAY
123 SET COLOR TO /W, /W
124 @ 24,0 SAY FEATURES
125 LOOP
126 ELSE
127 STORE MSITE + MFEAT TO MKEY
128 GO TOP
129 FIND &MKEY
130 IF EOF() = .T. THEN
131 SET COLOR TO W/B, W/B
132 @ 24,0 SAY SPACE(80)
133 SET COLOR TO W+/R, W+/R
134 STORE ' No record exists for feature number ' + MFEAT + ' , try again ' TO ERROR
135 @ 24,12 SAY ERROR
136 DO DELAY
137 SET COLOR TO /W, /W
138 *
139 @ 24,0 SAY FEATURES
140 STORE '999999' TO MFEAT
141 ENDDO IF EOF() = .T.
142 ENDIF .NOT. (MFEAT <= LOFNUM .AND. MFEAT <= HIFNUM)
143 ENDDO WHILE .NOT. (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
144 *
145 SET COLOR TO W/B, W/B
146 @ 24,0 SAY SPACE(80)
147 *
148 *
149 DO WHILE .T.
150 SET COLOR TO R+/R, R+/R

332
Page 4

MANULDEL.PRG Program Listing

151 @ 6,47 SAY RECNOS(PICT "9999"
152 STORE FEATURENO TO MFEAT
153 SELECT 2
154 USE DESCRIP INDEX DESCRIP.NDX
155 FIND &MFEAT
156 STORE CLIN TO MCLIN
157 STORE DESCRIPT TO MDESCIPT
158 SELECT 1
159 SET COLOR TO /BR, /BR
160 @ 9,45 SAY SITEJO PICT '99'
161 @ 12,45 SAY FEATURENO PICT '999999'
162 @ 13,45 SAY MCLIN PICT "9999"
163 @ 14,45 SAY MDESCIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"
164 @ 17,45 SAY MANULDESC PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"
165 SET COLOR TO W/B, W/B
166 @ 24,0 SAY SPACE(80)
167 *
168 ** ASK THE USER IF HE/SHE IS SURE ABOUT THE DELETION
169 *
170 **
171 SET COLOR TO W+/B, W+/B
172 @ 20,06 SAY MESSAGE
173 @ 20,58 SAY "Y"
174 @ 20,65 SAY "N"
175 STORE "N" TO ACCEPT
176 @ 20,70 GET ACCEPT PICT ",!"
177 READ
178 *
179 ** ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
180 *
181 **
182 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
183 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
184 SET COLOR TO W+/R, W+/R
185 @ 24,24 SAY "Response must be either N or Y"
186 DO DELAY
187 STORE "N" TO ACCEPT
188 ENDIF
189 **
190 SET COLOR TO R+/B, R+/B
191 @ 20,70 GET ACCEPT PICT ",!"
192 READ
193 *
194 ** IF ENTRIES ARE CORRECT, DELETE THEM FROM THE DATABASE.
195 ** IF NOT RECOVER THEM
196 *
197 **
198 IF ACCEPT = "Y"
199 DELETE
200 ENDIF
APPENDIX B: MAINTENANCE MANUAL
Page 197

Page 5
MANULDEL.PRG Program Listing

201 | *
202 SET COLOR TO R+/B, R+/B
203 STORE "C" TO CHOICE
204 @ 22,58 GET CHOICE PICT ":"
205 READ
206 *
207 ENSURE THAT THE USER'S RESPONSE IS EITHER "C" OR "X"
208 *
209 DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
210 IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
211 SET COLOR TO W+/R, W+/R
212 @ 24,24 SAY "Response must be either C or X"
213 DO DELAY
214 STORE "C" TO CHOICE
215 ENDIF
216 SET COLOR TO R+/B, R+/B
217 @ 22,58 GET CHOICE PICT ":"
218 READ
219 ENDDO
220 *
221 SKIP TO THE NEXT RECORD TO BE REVIEWED
222 *
223 IF CHOICE = "C" THEN
224 IF RECNO() = LAST.REC THEN
225 GO TOP
226 ELSE
227 SKIP
228 ENDIF
229 ENDIF
230 *
231 USER HAS DECIDED TO EXIT THE REVIEW
232 *
233 IF CHOICE = "X"
234 SET COLOR TO W+/R, W+/R
235 @ 24,0
236 @ 24,6 SAY PACKEM
237 SET COLOR TO W/B, W/B
238 PACK
239 EXIT
240 ENDIF
241 *
242 ENDWHILE .T.
243 *
244 RETURN TO CALLING PROGRAM.
245 *
246 RELEASE ALL LIKE M*, ACCEPT, CHOICE, ERROR, FEATURES, FIRST.REC,;
247 LAST.REC, PACKEM, SITES
248 CLOSE DATABASES
249 RETURN
250***********************************************************************
* PROCEDURE MANULREV.PRG

* AUTHORS
  - LCDR EDWARD J. CASE, SC, USN
  - LCDR WINSTON H. BUCKLEY, SC, USN
  - LCDR ROBERT F. BRADO, USN
  - LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE
  - TO ENABLE THE USER TO REVIEW ALL THE RECORDS IN THE MANUAL DATABASE

* INPUT FILES
  - MANUAL.DBF, MANULSIT.NDX

* CALLED BY
  - MANULCMD.PRG

* MODULES CALLED
  - DELAY.PRG

* GLOBAL VARIABLES
  - NUM, SITE, WNUM, WSITE

* LOCAL VARIABLES
  - ACCEPT, CHOICE, CURRENTNO, EOF, ERROR, FIRSTREC, LASTREC, MCLI, MDESC, MFEAT, MSITE, MSITEMODIFIED BY: MANULSIT.NDX

DATE LAST TIME MODIFIED

CASE SELECTION = 4 REVIEW EXISTING MANUAL RECORDS

SET ESCAPE OFF
SET TALK OFF
USE MANUAL
GO TOP
SET COLOR TO W+/B, W+/B, B
CLEAR
IF EOF() = .T. THEN
  SET COLOR TO W+/R, W+/R
  @ 13,25 SAY "The MANUALS Database is EMPTY!"
  DO DELAY
  RETURN
ENDIF
?? FLASH + "S.MANUALS.SCR/"
@ 24,0 SAY SPACE(80)
SET COLOR TO R+/R, R+/R
@ 3,26 SAY "MANUAL REVIEW FORMAT"
SELECT 1
STORE "Enter 00 to start at TOP, 99 to start at EOF or a site number " ;
"between " + LOGITE + " and " + HISTIE + " TO MESSAGE"
SET COLOR TO /W, /W
@ 24,0 SAY MESSAGE
STORE '00' TO MSITEMODIFIED BY: MANULSIT.NDX
DO WHILE .NOT. ((MSITE = '00') .AND. MSITE <= HISTIE) .OR. MSITE = '99')
  SET COLOR TO /BR, /BR
STORE '00' TO MSITE
@ 09,45 GET MSITE PICT '99'
READ
IF .NOT. ((MSITE >= '00' .AND. MSITE <= HISITE) .OR. MSITE = '99') THEN
    SET COLOR TO W/B, W/B
    @ 24,0 SAY SPACE(80)
    SET COLOR TO W+/R, W+/R
    STORE ' Response must be between '+ MSITE + ' and '+ HISITE + ', Zero (00) or 99 ' TO ERROR
    @ 24,13 SAY ERROR
    DO DELAY
    SET COLOR TO /W, /W
    @ 24,0 SAY MESSAGE
    LOOP
ELSE
    IF (MSITE = '00' .OR. MSITE = '99') THEN
        USE MANUAL
        IF MSITE = '00' THEN
            GO BOTTOM
            STORE RECN0() TO LAST_REC
            GO TOP
            STORE RECN0() TO FIRST_REC
            ELSE
                GO TOP
                STORE RECN0() TO FIRST_REC
                GO BOTTOM
                STORE RECN0() TO LAST_REC
        ENDIF MSITE = '00'
        EXIT
    ELSE
        USE MANUAL INDEX MANULSIT
        GO TOP
        FIND &MSITE
        IF EOF() = .T. THEN
            SET COLOR TO W/B, W/B
            @ 24,0 SAY SPACE(80)
            SET COLOR TO W+/R, W+/R
            STORE " No records exist for site number" + MSITE + "", try again" TO ERROR
            @ 24,16 SAY ERROR
            DO DELAY
            SET COLOR TO /W, /W
            @ 24,0 SAY MESSAGE
            STORE '88' TO MSITE
            LOOP
        ELSE
            EXIT
        ENDIF
    ENDIF
ENDIF
ENDDO WHILE
APPENDIX B: MAINTENANCE MANUAL

Page 3

MANULREV.PRG Program Listing

101 * 
102 STORE SPACE(10) + 'Enter "00 " to start at TOF or a six digit ' +
103 'feature number' + SPACE(10) TO MESSAGE
104 IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
105 SET COLOR TO /W, /W
106 @ 24,0 SAY MESSAGE
107 DO WHILE .T.
108 SET COLOR TO /BR, /BR
109 STORE '00 ' TO MFEAT
110 @ 12,45 GET MFEAT PICT '999999'
111 READ
112 IF .NOT. ((MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM) .OR.;
113 MFEAT = '00 ') THEN
114 SET COLOR TO W/B, W/B
115 @ 24,0 SAY SPACE(80)
116 SET COLOR TO W+/R, W+/R
117 STORE ' Response must be between ' + LOFNUM + ' and ' +;
118 'HIFNUM ' or Zero (00) ' TO ERROR
119 @ 24,9 SAY ERROR
120 DO DELAY
121 SET COLOR TO /W, /W
122 @ 24,0 SAY MESSAGE
123 LOOP
124 ELSE
125 IF (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM) THEN
126 IF MFEAT = '99 ' THEN
127 SET COLOR TO W/B, W/B
128 @ 24,0 SAY SPACE(80)
129 SET COLOR TO W+/R, W+/R
130 STORE ' Response must be between ' + LOFNUM + ' and ' +;
131 'HIFNUM ' or Zero (00) ' TO ERROR
132 @ 24,9 SAY ERROR
133 DO DELAY
134 SET COLOR TO /W, /W
135 @ 24,0 SAY MESSAGE
136 LOOP
137 ENDIF MFEAT = '99 '
138 STORE MSITE + MFEAT TO MKEY
139 USE MANUAL INDEX MANULSIT
140 GO TOP
141 FIND MKEY
142 IF EOF() = .T. THEN
143 SET COLOR TO W/B, W/B
144 @ 24,0 SAY SPACE(80)
145 SET COLOR TO W+/R, W+/R
146 STORE " No record with feature number " + MFEAT +;
147 " exists, try again " TO ERROR
148 @ 24,12 SAY ERROR
149 DO DELAY
150 SET COLOR TO /W, /W

337
@ 24.0 SAY MESSAGE

LOOP

ELSE

EXIT

ENDIF BOF() = .T.

ELSE

GO TOP

EXIT

ENDIF (MFEAT = LOFNUM .AND. MFEAT <= HIFNUM)

ENDIF

ENDIF .NOT. (MSITE = LOSITE .OR. MSITE = HISITE)

* SET COLOR TO W/B, W/B

@ 24.0 SAY SPACE(80)

STORE "At beginning of records for site number " +

MSITE + " TO TOF

STORE "At end of records for site number " + MSITE + " TO BOF

DO WHILE .T.

SET COLOR TO R+/B, R+/B

STORE FEATURENO TO MFEAT

SELECT 2

USE DESCRIP INDEX DESCRIP

FIND &MFEAT

STORE CLIN TO MCLIN

STORE DESCRIPT TO MDESCRIPT

SELECT 1

SET COLOR TO /BR/, /BR

@ 09.45 SAY SITENO PICT "99"

@ 12.45 SAY FEATURENO PICT "999999"

@ 13.45 SAY MCLIN PICT "9999"

@ 14.45 SAY MDESCRIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"

@ 17.45 SAY MANLDESC PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"

SELECT 2

SET COLOR TO R+/B, R+/B

STORE "N" TO CHOICE

@ 22.67 GET CHOICE PICT ":"%

READ

* ENSURE THAT THE USER'S RESPONSE IS EITHER "N", "P" OR "X"

DO WHILE .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. (CHOICE = "X")

IF NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X") THEN
APPENDIX B: MAINTENANCE MANUAL

Page 5
MANULREV.PRG Program Listing

201 | SET COLOR TO W+/R, W+/R
202 | @ 24,22 SAY "Response must be either N, P or X"  
203 | DO DELAY  
204 | STORE "N" TO CHOICE  
205 | ENDIF  
206 | SET COLOR TO R+/B, R+/B  
207 | @ 22,67 GET CHOICE PICT ":"  
208 | READ  
209 | ENDDO  
210 |  
211 | * SKIPI TO THE NEXT RECORD TO BE REVIEWED  
212 | *  
213 | IF CHOICE = "N" THEN  
214 | IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN  
215 | SKIP  
216 | IF EOF() = .T. THEN  
217 | SKIP - 1  
218 | SET COLOR TO W+/R, W+/R  
219 | @ 24,21 SAY EOF  
220 | DO DELAY  
221 | ELSE  
222 | IF .NOT. (SITENO = MSITE) THEN  
223 | SKIP - 1  
224 | SET COLOR TO W+/R, W+/R  
225 | @ 24,21 SAY EOF  
226 | DO DELAY  
227 | ENDIF  
228 | ENDIF EOF() = .T.  
229 | ELSE  
230 | IF RECNO() = LAST_REC THEN  
231 | GO TOP  
232 | ELSE  
233 | SKIP  
234 | ENDIF  
235 | ENDIF (MSITE >= LOSITE .AND. MSITE <= HISITE)  
236 | ENDIF CHOICE = "N"  
237 |  
238 | * SKIPI TO THE PREVIOUS RECORD  
239 | *  
240 | IF CHOICE = "P" THEN  
241 | STORE RECNO() TO CURRENTNO  
242 | IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN  
243 | SKIP - 1  
244 | IF EOF() = .T. THEN  
245 | GOTO CURRENTNO  
246 | SET COLOR TO W+/R, W+/R  
247 | @ 24,16 SAY TOP  
248 | DO DELAY  
249 | ELSE  
250 | IF .NOT. (SITENO = MSITE) THEN

339
APPENDIX B: MAINTENANCE MANUAL

MANULREV.PRG Program Listing

251 SKIP
252 SET COLOR TO W+/R, W+/R
253 @ 24,16 SAY TOF
254 DO DELAY
255 ENDIF
256 IF BOF() = .T.
257 ELSE
258 IF RECNO() = FIRST_REC THEN
259 GO BOTTOM
260 ELSE
261 SKIP - 1
262 ENDIF
263 IF MSITE = LOSITE .AND. MSITE <= HISITE
264 ENDIF CHOICE = "p"
265 USER HAS DECIDED TO EXIT THE REVIEW
266 IF CHOICE = "X"
267 EXIT
268 ENDIF
269 ENDWHILE .T.
270 * RETURN TO CALLING PROGRAM.
271 * RELEASE ALL LIKE M*, ACCEPT, CHOICE, CURRENTNO, BOF, FIRST_REC, LAST_REC, TOF
272 CLOSE DATABASES
273 RETURN
274 ********************************************
* PROCEDURE MANULUPD.PRG

* AUTHORS
: LCDR EDWARD J. CASE, SC, USN
: LCDR WINSTON H. BUCKLEY, SC, USN
: LCDR ROBERT F. BRADO, USN
: LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE
: TO ENABLE THE USER TO UPDATE SELECTED RECORDS IN
TIE MANUAL DATABASE

* INPUT FILES
: MANUAL.DBF, MANULSIT.NDX

* CALLED BY
: MANULCM.DRG

* MODULES CALLED
: DELAY.PRG

* GLOBAL VARIABLE: IIFNUM, HISTITE, WFNUM LOSITE

* LOCAL VARIABLES: ACCEPT, ANS, CHOICE, EOF, ERROR, MCLIN, MDATE,
MDESCIP, MFEAT, MSITE, TOF

* DATE LAST TIME MODIFIED
: 26 DECEMBER 1985

* CASE SELECTION = 2

SET ESCAPE OFF
SET TALK OFF
USE MANUAL
GO TOP
CLEAR
IF EOF() = .T. THEN
  SET COLOR TO W+/B, W+/B, B
  CLEAR
  IF 13,25 SAY "The MANUALS Database is EMPTY!"
  DO DELAY
  RETURN
ENDIF
?? FLASH + "S.MANUALS.SCR/"
24,0 SAY SPACE(80)
SET COLOR TO R+/ , R+/ 
24,0 SAY "MANUAL UPDATE FORMAT"
SELECT 1
STORE " Enter 00 to start at TOF, 99 to start at EOF or a site number" ;
"between " + MSITE + " and " + HISTITE + " TO MESSAGE"
SET COLOR TO /W, /W
24,0 SAY MESSAGE
STORE '88' TO MSITE
DO WHILE NOT.(MSITE = '00' .AND. MSITE = HISTITE) .OR. MSITE = '99'
  SET COLOR TO /BR , /BR
STORE '00' TO MSITE
APPENDIX B: MAINTENANCE MANUAL

MANULUPD.PRG Program Listing

51 @ 09,45 GET MSITE PICT '99'
52 READ
53 IF .NOT. ((MSITE >= '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
54    SET COLOR TO W/B, W/B
55    @ 24,0 SAY SPACE(80)
56    SET COLOR TO W+/R, W+/R
57    STORE ' Response must be between '+' LOSITE + ' and '+' +;
58    HISITE + ', Zero (00) or 99 ' TO ERROR
59    @ 24,13 SAY ERROR
60    DO DELAY
61    SET COLOR TO /W, /W
62    @ 24,0 SAY MESSAGE
63    LOOP
64 ELSE
65    IF (MSITE = '00' .OR. MSITE = '99') THEN
66        USE MANUAL
67        IF MSITE = '00' THEN
68            GO BOTTOM
69            STORE RECNO() TO LAST_REC
70            GO TOP
71            STORE RECNO() TO FIRST_REC
72        ELSE
73            GO TOP
74            STORE RECNO() TO FIRST_REC
75            GO BOTTOM
76            STORE RECNO() TO LAST_REC
77        ENDIF MSITE = '00'
78        EXIT
79    ELSE
80        USE MANUAL INDEX MANULSIT
81        GO TOP
82        FIND &MSITE
83        IF EOF() = .T. THEN
84            SET COLOR TO W/B, W/B
85            @ 24,0 SAY SPACE(80)
86            SET COLOR TO W+/R, W+/R
87            STORE " No records exist for site number " + MSITE +
88            ", try again " TO ERROR
89            @ 24,16 SAY ERROR
90            DO DELAY
91            SET COLOR TO /W, /W
92            @ 24,0 SAY MESSAGE
93            STORE '88' TO MSITE
94            LOOP
95    ENDIF EOF() = .T.
96    ENDIF (MSITE = '00' .OR. MSITE = '99')
97    ENDIF .NOT. ((MSITE >= '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
98    ENDDO WHILE .NOT. ((MSITE >= '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
99    *
100 STORE " At beginning of records for site number " +;
APPENDIX B: MAINTENANCE MANUAL

Page 3

MANULUPD.PRG Program Listing

101 MSITE + " " TO TOF
102 STORE " At end of records for site number " + MSITE + " " TO BOF
103 STORE ' Enter "00 " to start at TOF or a six digit feature' +;
104 ' number ( ' + LOFNUM + ' - ' + HIFNUM + ' ) ' TO MESSAGE
105 IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
106 SET COLOR TO /W, /W
107 @ 24,0 SAY MESSAGE
108 DO WHILE .T.
109 SET COLOR TO /BR, /BR
110 STORE '00 ' TO MFEAT
111 @ 12,45 GET MFEAT PICT '999999'
112 READ
113 IF .NOT. ((MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM) .OR.;
114 MFEAT = '00 ' ) THEN
115 SET COLOR TO W/B, W/B
116 @ 24,0 SAY SPACE(80)
117 SET COLOR TO W+/R, W+/R
118 STORE ' Response must be between ' + LOFNUM + ' and ' +;
119 ' + HIFNUM + ' or Zero (00) ' TO ERROR
120 @ 24,9 SAY ERROR
121 DO DELAY
122 SET COLOR TO /W, /W
123 @ 24,0 SAY MESSAGE
124 LOOP
125 ELSE
126 IF (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM) THEN
127 IF MFEAT = '99 ' THEN
128 SET COLOR TO W/B, W/B
129 @ 24,0 SAY SPACE(80)
130 SET COLOR TO W+/R, W+/R
131 STORE ' Response must be between ' + LOFNUM + ' and ' +;
132 ' + HIFNUM + ' or Zero (00) ' TO ERROR
133 @ 24,9 SAY ERROR
134 DO DELAY
135 SET COLOR TO /W, /W
136 @ 24,0 SAY MESSAGE
137 LOOP
138 ENDIF MFEAT = '99 '
139 STORE MSITE + MFEAT TO MKEY
140 USE MANUAL INDEX MANULSIT
141 GO TOP
142 FIND &MKEY
143 IF BOF() = .T. THEN
144 SET COLOR TO W/B, W/B
145 @ 24,0 SAY SPACE(80)
146 SET COLOR TO W+/R, W+/R
147 STORE " No record with feature number " + MFEAT + ";
148 " exists, try again '' TO ERROR
149 @ 24,12 SAY ERROR
150 DO DELAY
200 SET 09,45 SAY STRNO PICT "99"
MANULUPD.PRG Program Listing

201  12,45 SAY FEATURENO PICT "999999"
202  13,45 SAY MCLIN PICT "999"
203  14,45 SAY MDESCRIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
204  17,45 GET MMANDESC PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
205  READ
206  SET COLOR TO W/B, W/B
207  @ 24,0 SAY SPACE(80)
208  *  IF NOT. (MANLDESC = MMANDESC) THEN
209  *    ASK THE USER IF HE/SHE DESIRES TO ACCEPT THE CHANGES.
210  *
211  *    SET COLOR TO W+/B, W+/B
212  *    @20,12 SAY "Do you want to accept the changes? (Yes or No):"
213  *    SET COLOR TO R+/B, R+/B
214  *    @20,49 SAY "Y"
215  *    @20,56 SAY "N"
216  *    STORE "N" TO ACCEPT
217  *    @20,62 GET ACCEPT PICT ":"
218  READ
219  *
220  *    ENSURE THAT THE USER'S PROMPT IS EITHER "Y" OR "N"
221  *
222  *    DO WHILE NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
223  *        SET COLOR TO W+/R, W+/R
224  *        @24,24 SAY "Response must be either N or Y"
225  *        DO DELAY
226  *        STORE "N" TO ACCEPT
227  *        ENDIF
228  *
229  *    SET COLOR TO R+/B, R+/B
230  *    @20,62 GET ACCEPT PICT ":"
231  READ
232  
233  *    ENDDO
234  *    SET COLOR TO W/B, W/B
235  *    @ 20,10 SAY SPACE(60)
236  *
237  *    IF ACCEPT = "Y" THEN
238  *        REPLACE MANLDESC WITH MMANDESC
239  *        ELSE
240  *        SET COLOR TO /BR, /BR
241  *        @ 17,45 SAY MANLDESC PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"
242  *        ENDIF
243  *
244  *
245  *
246  *
247  *    SET COLOR TO R+/B, R+/B
248  *    STORE "N" TO CHOICE
249  *    @ 22,67 GET CHOICE PICT ":"
250  READ
ENSSURE THAT THE USER'S RESPONSE IS EITHER "N", "P" OR "X"

DO WHILE .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X")
   IF .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X") THEN
      SET COLOR TO W+/R, W+/R
      @ 24,22 SAY " Response must be either N, P or X "
      DO DELAY
      STORE "N" TO CHOICE
   ENDIF
   SET COLOR TO R+/B, R+/B
   @ 22,67 GET CHOICE PICT ":'
   READ
   ENDDO

* SKIIP TO THE NEXT RECORD TO BE REVIEWED

IF CHOICE = "N" THEN
   IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
      SKIP
   ELSE
      IF EOF() = .T. THEN
         SKIP - 1
      ELSE
         SET COLOR TO W+/R, W+/R
         @ 24,21 SAY EOF
         DO DELAY
      ENDIF
   ELSE
      IF .NOT. (SITENO = MSITE) THEN
         SKIP - 1
      ELSE
         SET COLOR TO W+/R, W+/R
         @ 24,21 SAY EOF
         DO DELAY
      ENDIF EOF() = .T.
   ELSE
      IF RECNO() = LAST_REC THEN
         GOTO TOP
      ELSE
         SKIP
      ENDIF
   ENDIF (MSITE >= LOSITE .AND. MSITE <= HISITE)
ENDIF CHOICE = "N"

* SKIIP TO THE PREVIOUS RECORD

IF CHOICE = "P" THEN
   STORE RECN0() TO CURRENTNO
   IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
      SKIP - 1
      IF EOF() = .T. THEN
         GOTO CURRENTNO
   ELSE
      SKIP
   ENDIF
ENDIF
APPENDIX B: MAINTENANCE MANUAL

MANULUPD.PRG Program Listing

301 | SET COLOR TO W+/R, W+/R
302 | @ 24,16 SAY TOF
303 | DO DELAY
304 | ELSE
305 | IF .NOT. (SITENO = MSITE) THEN
306 | SKIP
307 | SET COLOR TO W+/R, W+/R
308 | @ 24,16 SAY TOF
309 | DO DELAY
310 | ENDIF
311 | ENDIF BOF() = .T.
312 | ELSE
313 | IF RECNO() = FIRST_REC THEN
314 | GO BOTTOM
315 | ELSE
316 | SKIP - 1
317 | ENDIF
318 | ENDIF (MSITE >= IOSTE AND MSITE <= HISTE)
319 | ENDIF CHOICE = "P"
320 | *
321 | USER HAS DECIDED TO EXIT THE REVIEW
322 | *
323 | IF CHOICE = "X"
324 | EXIT
325 | ENDIF
326 | *
327 | ENDDO WHILE .T.
328 | *
329 | RETURN TO CALLING PROGRAM.
330 | *
331 | RELEASE ALL LIKE M*, ACCEPT, ANS, CHOICE, ERROR
332 | CLOSE DATABASES
333 | RETURN
334 | **************************************************
APPENDIX B: MAINTENANCE MANUAL

Page 211

Page 1

MKLABELS.PRG Program Listing

* PROCEDURE MKLABELS.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
*          : LCDR WINSTON H. BUCKLEY, SC, USN
*          : LCDR ROBERT F. BRADO, USN
*          : LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : PROVIDE THE USER WITH THE CAPABILITY OF RAPIDLY
*            GENERATING MAILING LABELS FOR ALL OF THE SPLICE
*            SITES.

* INPUT FILES : NONE.

* OUTPUT FILES : NONE.

* CALLED BY : MAINMENU.PRG

* MODULES CALLED : DELAY.PRG

* LOCAL VARIABLES: COPIES, IMAGE, INTRO, LABELS, LAST_LINE,
*                  LINECNT, MESSAGE, SKIPONE

* DATE LAST TIME MODIFIED =============== 27 DECEMBER 1985 ===============

* GENERATE MAILING LABELS FOR ALL OF THE SPLICE SITES.

SET ESCAPE OFF
SET EXACT ON
SET TALK OFF
CLEAR
?? FLASH + "S.MKLABELS.SCR/"
@ 24,0 SAY SPACE(80)
SET COLOR TO R+/B, R+/B
*
OBTAIN THE NUMBER OF SETS OF LABELS TO PRINT FROM THE USER
*
STORE SPACE(5) + "Input the number of sets of labels desired" +;
" (Range 1 - 10) or 00 TO EXIT" + SPACE(5) TO MESSAGE
*
STORE "99" TO COPIES
DO WHILE .NOT. (COPIES >= "00" .AND. COPIES <= "10")
  SET COLOR TO /W, /W
  @ 24,0 SAY MESSAGE
  STORE "00" TO COPIES
  SET COLOR TO R+/B, R+/B
  @ 6,55 GET COPIES PICT "99"
  READ
  IF .NOT. (COPIES >= '00' .AND. COPIES <= '10')
    SET COLOR TO /W, /W

348
MKLABELS.PRG Program Listing

51   @ 24,0 SAY SPACE(80)
52   SET COLOR TO W+/R, W+/R
53   @ 24,22 SAY " Response must be between 00 and 10 "
54   DO DELAY
55   SET COLOR TO /W, /W
56   @ 24,0 SAY MESSAGE
57   LOOP
58   ENDIF
59 END DO
60 SET COLOR TO W/B, W/B
61 @ 24,0 SAY SPACE(80)
62 *
63 IF COPIES = "00" THEN
64   SET EXACT OFF
65   RELEASE COPIES, MESSAGE
66   RETURN
67 ENDIF
68 *
69 * START PRINTING LABELS
70 *
71 USE CONFIG INDEX CONFIG
72 GO 'UP
73 STORE SPACE(15) + " Performing printer alignment test for label forms" +;
74    SPACE(15) TO MESSAGE
75 STORE "Running label forms alignment print test" TO IMAGE
76 STORE "Y" TO CHOICE
77 STORE 1 TO INTRO
78 STORE 1 TO LINECNT
79 STORE LINECNT + 8 TO SKIPONE
80 *
81 * ASK THE USER IF A PRINTER ALIGNMENT TEST IS DESIRED
82 *
83 SET COLOR TO W+/B, W+/B
84 @ 22,9 SAY "Do you desire to run a printer alignment test? (Yes or No): "
85 SET COLOR TO R+/B, R+/B
86 @ 22,57 SAY "Y"
87 @ 22,64 SAY "N"
88 DO WHILE CHOICE = "Y"
89   SET COLOR TO R+/B, R+/B
90   # 22,70 GET CHOICE PICT ":""
91 READ
92 *
93 * ENSURE THAT THE USER'S PROMPT IS EITHER "Y" OR "N"
94 *
95 DO WHILE .NOT. (CHOICE = "N" .OR. CHOICE = "Y")
96     IF .NOT. (CHOICE = "N" .OR. CHOICE = "Y") THEN
97       SET COLOR TO W+/R, W+/R
98       @ 24,24 SAY " Response must be either N or Y "
99     DO DELAY
100    STORE "Y" TO CHOICE
APPENDIX B: MAINTENANCE MANUAL

Page 3

MKLABELS.PRG Program Listing

101  ENDIF .NOT. (CHOICE = "N" .OR. CHOICE = "Y")
102  SET COLOR TO R+/B ,R+/B
103  @ 22,70 SET CHOICE PICT ";!"
104  READ
105  ENDDO WHILE .NOT. (CHOICE = "N" .OR. CHOICE = "Y")
106  *
107  IF CHOICE = "Y"
108  @ 22,70 SAY " "
109  *
110  * DISPLAY PRINTER INFORMATION WINDOW TO USER
111  *
112  IF INTRO = 1 THEN
113      STORE 0 TO INTRO
114      ?? FLASH + "W.LABELS/"
115      SET CONSOLE OFF
116      WAIT TO ANS
117      SET CONSOLE ON
118  ENDF IF INTRO = 1
119  SET COLOR TO /W, /W
120  @ 24,0 SAY MESSAGE
121  SET COLOR TO /BR, /BR
122  @ 14,19 SAY IMAGE
123  @ 15,19 SAY IMAGE
124  @ 16,19 SAY IMAGE
125  @ 17,19 SAY IMAGE
126  @ 18,19 SAY IMAGE
127  @ 19,19 SAY IMAGE
128  SET DEVICE TO PRINT
129  DO WHILE LINECNT < SKIPONE
130      @ LINECNT,1 SAY IMAGE
131      LINECNT = LINECNT + 1
132  ENDDO WHILE LINECNT < SKIPONE
133  SKIPONE = LINECNT + 8
134  SET DEVICE TO SCREEN
135  SET COLOR TO W/B, W/B
136  @ 24,0 SAY SPACE(80)
137  ELSE
138      SET COLOR TO /BR, /BR
139      @ 14,19 SAY SPACE(40)
140      @ 15,19 SAY SPACE(40)
141      @ 16,19 SAY SPACE(40)
142      @ 17,19 SAY SPACE(40)
143      @ 18,19 SAY SPACE(40)
144      @ 19,19 SAY SPACE(40)
145      LOOP
146  ENDIF CHOICE = "Y"
147  ENDDO WHILE CHOICE = "Y"
148  *
149  * SKIP ONE BLANK LABEL PRIOR TO PRINTING SITE LABELS
150  *
APPENDIX B: MAINTENANCE MANUAL

Page 4  Mklabels.prg Program Listing

151 | SET DEVICE TO PRINT
152 | *
153 | DO WHILE LINECNT < SKIPONE
154 |   @ LINECNT,1 SAY " 
155 |   LINECNT = LINECNT + 1
156 | ENDDO WHILE LINECNT < SKIPONE
157 | *
158 | SET DEVICE TO SCREEN
159 | *
160 | SET COLOR TO W+/B, W+/B
161 | @ 21,10 SAY SPACE (60)
162 | *
163 | DISPLY PRINTER INFORMATION WINDOW TO USER
164 | *
165 | IF INTRO = 1 THEN
166 |   STORE 0 TO INTRO
167 |   ?? FLASH + "W.LABELS/
168 |   SET CONSOLE OFF
169 |   WAIT TO ANS
170 |   SET CONSOLE ON
171 | ENDF INTRO = 1
172 | *
173 | STORE SPACE(28) + "Printing Mailing Labels " + SPACE(28) TO MESSAGE
174 | SET COLOR TO /W, /W
175 | @ 24,0 SAY MESSAGE
176 | *
177 | DO WHILE .NOT. EOF()
178 |   STORE TRIM(SITECITY) + "," + TRIM(SITESTATE) + "," +;
179 |   TRIM(SITEZIP) TO LAST_LINE
180 |   SET COLOR TO R+/B, R+/B
181 |   IF SITECO = " 
182 |     SKIP
183 |     LOOP
184 |   ENDF SITECO = " 
185 | @ 10,46 SAY SITECO PICT "99"
186 | SET COLOR TO /BR, /BR
187 | @ 15,19 SAY SITECO PICT "!!!!!!!!!!!!!!!!!!!!"  
188 | @ 16,19 SAY SITENAMEFL PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"
189 | IF SITEADD1 > " 
190 |   @ 17,19 SAY SITEADD1 PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"
191 | * IF SITEADD2 > " 
192 |   @ 18,19 SAY SITEADD2 PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"
193 | @ 19,19 SAY LAST_LINE
194 | ELSE
195 | @ 18,19 SAY LAST_LINE
196 | ENDF SITEADD2 > " 
197 | ELSE
198 | @ 17,19 SAY LAST_LINE
199 | ENDF SITEADD1 > " 
200 | SET DEVICE TO PRINT
MKLABELS.PRG Program Listing

201 STORE 0 TO LABELS
202 DO WHILE LABELS < VAL(COPIES)
203 @ LINECNT+1,1 SAY SPACE(40)
204 @ LINECNT+1,1 SAY SPACE(40)
205 @ LINECNT+2,1 SAY SITENO PICT """"""""""""""""""""""""""""
206 @ LINECNT+3,1 SAY SITENAMEFL
207 PICT """"""""""""""""""""""""""""""""
208 IF SITEADD1 > """" THEN
209 @ LINECNT+4,1 SAY SITEADD1
210 PICT """""""""""""""""""""""""""""""""""
211 IF SITEADD2 > """" THEN
212 @ LINECNT+5,1 SAY SITEADD2
213 @ LINECNT+6,1 SAY LAST LINE
214 @ LINECNT+7,1 SAY SPACE(40)
215 ELSE
216 @ LINECNT+5,1 SAY LAST LINE
217 @ LINECNT+6,1 SAY SPACE(40)
218 @ LINECNT+7,1 SAY SPACE(40)
219 ENDIF SITEADD2 > ""
220 ELSE
221 @ LINECNT+4,1 SAY LAST LINE
222 @ LINECNT+5,1 SAY SPACE(40)
223 @ LINECNT+6,1 SAY SPACE(40)
224 @ LINECNT+7,1 SAY SPACE(40)
225 ENDIF SITEADD1 > ""
226 LINECNT = LINECNT+8
227 IF LINECNT > 81 THEN
228 LINECNT = 1
229 ENDIF LINECNT > 81
230 LABELS = LABELS + 1
231 ENDDO WHILE LABELS < COPIES
232 SET DEVICE TO SCREEN
233 @ 14,19 SAY SPACE(40)
234 @ 15,19 SAY SPACE(40)
235 @ 16,19 SAY SPACE(40)
236 @ 17,19 SAY SPACE(40)
237 @ 18,19 SAY SPACE(40)
238 @ 19,19 SAY SPACE(40)
239 SKIP
240 ENDDO WHILE .NOT. EOF()
241 * RETURN TO THE CALLING PROGRAM
242 *
243 SET EXACT OFF
244 RELEASE COPIES, IMAGE, INTRO, LABELS, LAST_LINE, LINECNT;
245 MESSAGE, SKIPONE
246 CLOSE DATABASES
247 RETURN
248
249
250

352
* PROCEDURE MNLSTRPT.PRG

* AUTHORS
   : LCDR EDWARD J. CASE, SC, USN
   : LCDR WINSTON H. BUCKLEY, SC, USN
   : LCDR ROBERT F. BRADO, USN
   : LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE
   : PROVIDE THE USER A SPLICE MANUAL SITE LEVEL REPORT.

* INPUT FILES
   : MANUAL.DBF, TEMPONE.DBF, DESCRIP.DBF,
   : DESCRIP.NDX

* OUTPUT FILES
   : NONE.

* CALLED BY
   : SITERPTS.PRG

* MODULES CALLED
   : DELAY.PRG

* GLOBAL VARIABLE: HISITE, LOSITE

* LOCAL VARIABLES: ACCEPT, CHOICE, ERROR, LINECT, MSITE, PAGENO,
   : TODAY, TODATE

* DATE LAST TIME MODIFIED
   : 27 DECEMBER 1985

CASE SELECTION

= 2
MANUAL SITE LEVEL REPORT

CREATE THE SPLICE MANUAL SITE REPORT AND CHECK IF THE REPORT
IS TO BE PRINTED OR DISPLAYED ON THE SCREEN.

SET ESCAPE OFF
SET TALK OFF
SET COLOR TO W+/B, W+/B, B
CLEAR
USE MANUAL
GO TOP
IF EOF() = .T. THEN
   SET COLOR TO W+/R, W+/R
   @ 13,25 SAY " The MANUALS Database is EMPTY! "
   DO DELAY
   RETURN
ENDIF
?? FLASH + "S.REPORTS.SCR/"
@ 24,0 SAY SPACE(80)
SET COLOR TO R+/ , R+/ 
@ 2,27 SAY " SITE LEVEL MANUAL REPORT "
ENSURE THAT TEMPORARY DATABASE AND INDEX DO NOT EXIST; IF SO ERASE THEM
SET CONSOLE OFF
ERASE TEMPONE.DBF
ERASE TEMPONE.NDX
SET CONSOLE ON

SET COLOR TO W+/BR, W+/BR
@ 13,15 SAY "Enter site number for which the report is desired:"
USE MANUAL INDEX MANULSIT

DO WHILE .T.

SET COLOR TO /BR, /BR
STORE LOSITE TO MSITE
@ 13,66 GET MSITE PICT '99'
READ
IF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
SET COLOR TO W+/R, W+/R
STORE 'Response must be between ' + LOSITE +'
' and ' + HISITE +' TO ERROR
@ 24,22 SAY ERROR
DO DELAY
DO LOOP
ELSE
GO TOP
FIND &MSITE
IF EOF() = .T. THEN
STORE "No manuals exist for site " + MSITE +
", try another site " TO MESSAGE
SET COLOR TO W+/R, W+/R
@ 24,16 SAY MESSAGE
DO DELAY
DO LOOP
ELSE
EXIT
ENDIF EOF() = .T.
ENDIF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
ENDDO WHILE .T.

SET COLOR TO /BR, /BR
@ 13,15 SAY SPACE(55)

SET COLOR TO R+/ , R+/R
@ 13,13 SAY " CREATING THE TEMPORARY DATABASE AND ASSOCIATED INDEX "
*
* CREATE THE TEMPORARY DATABASE TO BE USED
*

SET CONSOLE OFF
COPY STRUCTURE TO TEMPONE
USE TEMPONE
APPEND FROM MANUAL FOR SITENO = "MSITE"

INDEX ON FEATURENO TO TEMPONE
APPENDIX B: MAINTENANCE MANUAL

Page 3

MNLSTRPT.PRG Program Listing

101 SET CONSOLE ON
102 *
103 * CREATE THE SPLICE EQUIPMENT PROJECT REPORT AND CHECK IF THE REPORT
104 * IS TO BE PRINTED OR DISPLAYED ON THE SCREEN.
105 *
106 SET COLOR TO /BR, /BR
107 @ 13,12 SAY SPACE(65)
108 *
109 SET COLOR TO W+/BR, W+/BR
110 @ 13,16 SAY "Do you want a printed report? (Yes or No): "
111 SET COLOR TO /BR, /BR
112 @ 13,49 SAY "Y"
113 @ 13,56 SAY "N"
114 STORE "N" TO ACCEPT
115 @ 13,62 GET ACCEPT PICT "."
116 READ
117 *
118 * ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
119 *
120 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
121 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
122 SET COLOR TO W+/R, W+/R
123 # 24,24 SAY "Response must be either N or Y"
124 DO DELAY
125 STORE "N" TO ACCEPT
126 ENDIF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
127 SET COLOR TO /BR, /BR
128 @ 13,62 GET ACCEPT PICT "."
129 READ
130 ENDDO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
131 *
132 SET COLOR TO /BR, /BR
133 @ 13,12 SAY SPACE(65)
134 *
135 SELECT 1
136 USE TEMPONE
137 SELECT 2
138 USE DESCRIP INDEX DESCRIP
139 SELECT TEMPONE
140 SET RELATION TO FEATURENO INTO DESCRIP
141 GO TOP
142 *
143 @ 13,12 SAY SPACE(65)
144 *
145 IF ACCEPT = "Y" THEN
146 ?? FLASH + "W.PRINTER/"
147 SET CONSOLE OFF
148 WAIT TO CHOICE
149 SET CONSOLE ON
150 SET COLOR TO W/B, W/B
APPENDIX B: MAINTENANCE MANUAL

MNLSTRPT.PRG Program Listing

201 | SET COLOR TO GR+/B, GR+/B
202 | @ 5,2 SAY "SITE CLIN FEATURE# DESCRIPTION"
203 | @ 5,5 SAY "MANUAL DESCRIPTION"
204 | SET COLOR TO /BR, /BR
205 | STORE 0 TO LINECT
206 | *
207 | DO WHILE .NOT. EOF()
208 | DO WHILE LINECT < 15
209 |   @ LINECT+7,3 SAY SITENO
210 |   @ LINECT+7,8 SAY DESCRIP->CLIN
211 |   @ LINECT+7,16 SAY FEATURENO
212 |   @ LINECT+7,25 SAY DESCRIP->DESCRIPT
213 |   @ LINECT+7,54 SAY MANLDESC
214 |   LINECT = LINECT + 1
215 |   SKIP
216 | IF EOF() = .T. THEN
217 |   SET COLOR TO W+/R, W+/R
218 |   @ 24,18 SAY " End of File reached, Press any key to EXIT "
219 |   SET CONSOLE OFF
220 |   WAIT TO ACCEPT
221 |   SET CONSOLE ON
222 |   EXIT
223 | ENDF EOF() = .T.
224 | ENDDO WHILE LINECT < 15
225 | *
226 | IF EOF() = .T. THEN
227 |   EXIT
228 | ENDF EOF() = .T.
229 | SET COLOR TO R+/B, R+/B
230 | STORE "C" TO CHOICE
231 | @ 22,57 GET CHOICE PIC" "
232 | READ
233 | *
234 | ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
235 | *
236 | DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
237 |   IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
238 |     SET COLOR TO W+/R, W+/R
239 |     @ 24,24 SAY " Response must be either C or X "
240 |     DO DELAY
241 |     STORE "C" TO CHOICE
242 | ENDF .NOT. (CHOICE = "C" .OR. CHOICE = "X")
243 | SET COLOR TO R+/B, R+/B
244 | @ 22,57 GET CHOICE PIC" "
245 | READ
246 | ENDDO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
247 | *
248 | DETERMINE IF THE USER WANTS TO QUIT OR CONTINUE
249 | *
250 | IF CHOICE = "C"
APPENDIX B: MAINTENANCE MANUAL

Page 6

MNLSSTRPT.PRG Program Listing

251 | SET COLOR TO /BR, /BR
252 | @ 07,2 SAY SPACE(76)
253 | @ 08,2 SAY SPACE(76)
254 | @ 09,2 SAY SPACE(76)
255 | @ 10,2 SAY SPACE(76)
256 | @ 11,2 SAY SPACE(76)
257 | @ 12,2 SAY SPACE(76)
258 | @ 13,2 SAY SPACE(76)
259 | @ 14,2 SAY SPACE(76)
260 | @ 15,2 SAY SPACE(76)
261 | @ 16,2 SAY SPACE(76)
262 | @ 17,2 SAY SPACE(76)
263 | @ 18,2 SAY SPACE(76)
264 | @ 19,2 SAY SPACE(76)
265 | @ 20,2 SAY SPACE(76)
266 | @ 21,2 SAY SPACE(76)
267 | STORE 0 TO LINECT
268 | ELSE
269 | EXIT
270 | ENDIF CHOICE = "C"
271 *
272 | ENDDO WHILE .NOT. EOF()
273 *
274 | ENDIF ACCEPT = "Y"
275 *
276 | * ERASE THE TEMPORARY DATABASE AND ASSOCIATED INDEX USED FOR TOTALS
277 *
278 | CLOSE DATABASES
279 | SET CONSOLE OFF
280 | ERASE TEMPONE.DBF
281 | ERASE TEMPONE.NDX
282 | SET CONSOLE ON
283 | SET PRINT OFF
284 *
285 | * RETURN TO CALLING PROGRAM
286 *
287 | RELEASE ACCEPT, CHOICE, ERROR, LINECT, MSITE, PAGENO, TODAY, TODATE
288 | RETURN
289 |***************************************************************
APPENDIX B: MAINTENANCE MANUAL

NEWDOADD.PRG Program Listing

* PROCEDURE NEWDOADD.PRG
* AUTHORS : LCDR EDWARD J. CASE, SC, USN
           : LCDR WINSTON H. BUCKLEY, SC, USN
           : LCDR ROBERT F. BRADO, USN
           : LCDR ROBERT L. BEARD III, SC, USN
* PURPOSE : TO ADD A NEW DELIVERY ORDER TO THE EXISTING EQUIPMENT,
           : MANUAL, AND SERIAL NUMBER DATA Bases WHILE UPDATING
           : ALL INDEXES. NO TEMP.DBF LINE ITEM WITH A BLANK
           : OR "XXXXXX" FEATURE NUMBER WILL BE ADDED TO THE FILE.
* INPUT FILES : EQUIP.DBF, MANUAL.DBF, SERIALNO.DBF, TEMP.DBF,
                : NEWDOMOD.DBF, SERNORTMP.DBF.
* OUTPUT FILES : EQUIP.DBF, MANUAL.DBF, SERIALNO.DBF, TEMP.DBF,
                : NEWDOMOD.DBF, SERNORTMP.DBF.
* CALLED BY : NEWDOCVT.PRG
* MODULES CALLED : SERNOBLD.PRG
* LOCAL VARIABLES: MESSAGE, MFEAT, MSITE, MINDEX
* DATE LAST TIME MODIFIED = 22 DECEMBER 1985
* CLEAR SCREEN, COPY AND MODIFY INPUT FILE TO DATABASE FORMAT FOR
* ALL RECORDS THAT DON'T HAVE A BLANK OR "XXXXXX" IN THE FEATURE NUMBER.
SET COLOR TO R+/ , R+/ 15,24 SAY " UPDATING THE EQUIPMENT DATABASE ">
STORE " Adding new records to the EQUIPMENT database" ;;
" PLEASE BE PATIENT " TO MESSAGE
SET COLOR TO /W, /W
# 24,0 SAY MESSAGE
USE EQUIP
COPY STRUCTURE TO NEWDOMOD
USE NEWDOMOD
APPEND FROM TEMP.DBF FOR FEATUREN <> ' ' AND FEATUREN <> 'XXXXXX'
* FILL-IN THE EFFECTIVE DELIVERY ORDER DATE FIELD WITH THE DATE SUPPLIED
* BY THE USER AND ADD THE DELIVERY ORDER TO THE EQUIPMENT DATABASE.
REPLACE ALL .EFDATE WITH .MEFFDATE
USE EQUIP INDEX EQUIPNO, EQUIPST, EQUIPPRJ, EQUIPSD, .EFENT
APPEND FROM NEWDOMOD
* ADDING THE NEW RECORDS FOR THE MANUAL DATABASE.
SET COLOR TO R+/ , R+/
APPENDIX B: MAINTENANCE MANUAL

Page 2

NEWDOMOD.PRG Program Listing

51 @ 15,24 SAY " UPDATING THE MANUALS DATABASE "
52 STORE " Adding new records to the MANUAL database" 
53 " PLEASE BE PATIENT " TO MESSAGE
54 @ 24,0 SAY MESSAGE
55 CLOSE DATABASES
56 SELECT 1
57 USE MANUAL INDEX MANULSIT
58 SELECT 2
59 USE NEWDOMOD
60 *
61 DO WHILE .NOT. EOF()
62   STORE SITENO TO MSITE
63   STORE FEATURENO TO MFEAT
64   STORE SITENO + FEATURENO TO MINDEX
65   SELECT 1
66   GO TOP
67   FIND &MINDEX
68   IF EOF( )
69     GO BOTTOM
70     INSERT BLANK
71     REPLACE FEATURENO WITH " &MFEAT"
72     REPLACE SITENO WITH " &MSITE"
73     ENDF
74   ENDIF
75   SELECT 2
76   SKIP
77 ENDDO WHILE .NOT. EOF()
78 *
79 * BUILDING A DUMMY SERIAL NUMBER FILE WHICH WILL BE MODIFIED AND
80 * EXPANDED WHEN ALL DELIVERY ORDERS HAVE BEEN LOADED.
81 *
82 SET COLOR TO R+/ , R+/ R+/ R+/ R+/ R+/ R+/ R+/ R+/ R+/ R+/ R+/ R+/ R+/ R+
83 @ 15,24 SAY " BUILDING THE SERIAL NUMBER FILE "
84 STORE " Adding new records to the SERIAL NUMBER database, " 
85 " PLEASE BE PATIENT " TO MESSAGE
86 SET COLOR TO /W, /W
87 @ 24,0 SAY MESSAGE
88 USE SERIALNO
89 COPY STRUCTURE TO SERNOIMP
90 USE SERNOIMP
91 APPEND FROM NEWDOMOD
92 *
93 * CALL THE PROGRAM TO BUILD THE BLANK SERIAL NUMBER RECORDS
94 *
95 DO SERNOBLD
96 STORE " Appending new records to the database may be a long process," 
97 " PLEASE BE PATIENT " TO MESSAGE
98 SET COLOR TO /W, /W
99 @ 24,0 SAY MESSAGE
100 SET COLOR TO R+/ , R+/
APPENDIX B: MAINTENANCE MANUAL

NEWDOADD.PRG Program Listing

101 @ 15,12 SAY " APPENDING NEW RECORDS TO THE SERIAL NUMBER DATABASE "
102 USE SERIALNO INDEX SERNORJ, SERNOSIT, SERNODAT, SERNOFEA
103 APPEND FROM SERNORJP
104 SET COLOR TO W/B, W/B
105 @ 15,10 SAY SPACE(65)
106 @ 24,0 SAY SPACE(80)
107 *
108 * RETURNING TO THE CALLING PROGRAM.
109 *
110 CLOSE DATABASES
111 RETURN
112***************************************************************************
APPENDIX B: MAINTENANCE MANUAL

NEWDOCMND.PRG Program Listing

1 * PROCEDURE NEWDOCMND.PRG
2 *
3 * AUTHORS : LCDR EDWARD J. CASE, SC, USN
4 * LCDR WINSTON H. BUCKLEY, SC, USN
5 * LCDR ROBERT F. BRADO, USN
6 * LCDR ROBERT L. BEARD III, SC, USN
7 *
8 * PURPOSE : LOAD NEW DELIVERY ORDERS TO THE DATABASE FILES.
9 *
10 * INPUT FILES : NONE.
11 *
12 * OUTPUT FILES : NONE.
13 *
14 * CALLED BY : MAINMENU.PRG.
15 *
16 * MODULES CALLED : NEWDOCMV.PRG
17 *
18 * LOCAL VARIABLES: SELEKT
19 *
20 * DATE LAST TIME MODIFIED ===========) 22 DECEMBER 1985 ===========
21 *
22 * DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR SELECTION
23 *
24 STORE "1" TO SELEKT
25 DO WHILE SELEKT < "2"
26 SET COLOR TO W/B, W/B
27 CLEAR
28 ?? FLASH + "W.NEWDOCMND/"
29 SET CONSOLE OFF
30 WAIT TO SELEKT
31 SET CONSOLE ON
32 *
33 * PROCESS ROUTINE BASED ON THE USER'S SELECTION.
34 *
35 DO CASE
36 *
37 * CALL THE NEW DELIVERY ORDER CONVERT AND LOAD PROGRAM.
38 CASE SELEKT = "1"
39     DO NEWDOCMV
40 *
41 * RETURN TO THE MAINMENU PROGRAM.
42 CASE SELEKT = "2"
43 *
44 ENDCASE
45 *
46 ENDO (WHILE SELEKT = "2")
47 *
48 * RETURN TO THE CALLING PROGRAM
49 *
50 RETURN

361
NEWDOCMD.PRG Program Listing

51| *****************************************
* PROCEDURE NEWDOCVT.PRG

* AUTORS : LCDR EDWARD J. CASE, SC, USN
LCDR WINSTON H. BUCKLEY, SC, USN
LCDR ROBERT F. BRADO, USN
LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : TO COMPARE AN INCOMING NEW DELIVERY ORDER TO THE
EXISTING EQUIPMENT DATABASE AND CHECK FOR DUPLICATE
SITE NUMBER AND DELIVERY ORDER DATE. IF THE SITE
NUMBER AND DELIVERY DATE ARE UNIQUE OR THE USER
DECIDES TO LOAD THE DUPLICATE SITE NUMBER/DELIVERY
ORDER ANYWAY THEN THE NEW DELIVERY ORDER ADD
PROGRAM IS CALLED. WHEN ALL DELIVERY ORDERS ARE
ADDED THEN SPECIFIED INDEXES ARE UPDATED.

* INPUT FILES : TED.DBF, EQUIP.DBF, MANUAL.DBF, SERIALNO.DBF, NEW
DELIVERY ORDER .PRN FILE, EFFDATE.NDX, EQUIPSIT.NDX,
EQUIPPRJ.NDX, MANUSSIT.NDX, SERNOPRJ.NDX, SERNOSIT.NDX,
SERNODAT.NDX, NEWMODDBF, TEMP.DBF, SERNUMP.DBF,
EFEAT.NDX

* OUTPUT FILES : EQUIP.DBF, MANUAL.DBF, SERIAL.DBF, EFFDATE.NDX,
EQUIPSIT.NDX, EQUIPPRJ.NDX, MANUSSIT.NDX, EFEAT.NDX
SERNOPRJ.NDX, SERNOSIT.NDX, SERNODAT.NDX.

* CALLED BY : NEWDOCMD.PRG

* MODULES CALLED : NEWLOADU.PRG, DELAY.PRG

* GLOBAL VARIABLE: H1DATE, HISITE, LODATE, LOSITE

* LOCAL VARIABLES: ACCEPT, CHOICE, DBNAME, ERASIT, ERROR, MDAY, MEFFDATE,
MESSAGE, MKEY, MMONHT, MULDATE, MSITE, MYEAR, HOFILE

* DATE LAST TIME MODIFIED ============== 22 DECEMBER 1985 =============

* SET UP INITIAL STRUCTURE AND RECEIVE INPUT INFORMATION.
* AND START LOOP PROCESS.

SET ESCAPE OFF
SET TALK OFF
SET COLOR TO W+/B, W+/B, B
?? FLASH "$NEWDOCVT.SCR/
24,0 SAY SPACE(80)
STORE "Are all input entries correct? (Yes or No):" to (1J)RREC'
DO WHILE .T.

* OBTAIN THE INPUT VALUES FROM THE USER
DO WHILE .T.
    STORE SPACE(18) + "Enter the name of the .PRN file to be loaded" +;
    SPACE(18) TO MESSAGE
    SET COLOR TO /W, /W
    @ 24,0 SAY MESSAGE
75    STORE "SPICE " TO DBNAME
    STORE DTOC(DATE()) TO SYSDATE
    STORE SUBSTR(SYSDATE,7,2) + SUBSTR(SYSDATE,1,2) +;
    SUBSTR(SYSDATE,4,2) TO MEFFDATE
    STORE "01" TO MSITE
    SET COLOR TO /BR, /BR
    @ 24,24 SAY " File does not exist, try again "
    DO DELAY
    NOFILE = NOFILE + 1
    IF NOFILE = 3 THEN
        SET COLOR TO W+/BG, W+/BG
        @ 17,15 SAY " Do you want to exit this process? (Yes or No): "
        SET COLOR TO /BG, /BG
        @ 17,51 SAY "Y"
        @ 17,58 SAY "N"
        STORE "Y" TO ACCEPT
        @ 17,63 GET ACCEPT PICT ":"
        READ
        DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
            IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
                SET COLOR TO W+/R, W+/R
                @ 24,24 SAY " Response must be either N or Y "
                DO DELAY
                STORE "Y" TO ACCEPT
            ENDIF
            SET COLOR TO /DG, /DG
            @ 17,63 GET ACCEPT PICT ":"
            READ
        ENDDO
        IF ACCEPT = "Y" THEN
            SET CONSOLE OFF
            CLOSE DATABASES
            ERASE TEMP.DBF
            ERASE NEWLМОD.DBF
            ERASE SERNТМP.DBF
            SET CONSOLE ON
            RELEASE ALL LIKE M*, ACCEPT, CHOICE, CURRENT, DNAME,;
APPENDIX B: MAINTENANCE MANUAL

NEWDOCVT.PRG Program Listing

101 ERASIT, NOFILE, SYSDATE
102 RETURN
103 ELSE
104 NOFILE = 0
105 ENDIF
106 SET COLOR TO W+/B, W+/B
107 @ 17,10 SAY SPACE(55)
108 ENDIF
109 SET COLOR TO /W, /W
110 @ 24,0 SAY MESSAGE
111 STORE "SPLICE " TO DBNAME
112 SET COLOR TO /BR, /BR
113 @ 6,54 GET DBNAME PICT "!!!!!!!!"
114 READ
115 ENDDO
116 STORE TRIM(DBNAME) + ".PRN" TO DBNAME
117 USE TED
118 COPY TO TEMP.DBF
119 USE TEMP.DBF
120 APPEND FROM &DBNAME SDF
121 GO TOP
122 *
123 * HAVE THE USER SPECIFY THE EFFECTIVE DATE OF THE DELIVERY ORDER
124 *
125 STORE SPACE(17) + "Input Effective Date (Range " + LODATE + ";"
126 " to " + HIDATE + ")" + SPACE(17) TO MESSAGE
127 SET COLOR TO /W, /W
128 @ 24,0 SAY MESSAGE
129 STORE "000000" TO MOLDATE
130 DO WHILE .NOT. (MOLDATE >= LODEATE .AND. MOLDATE <= HIDATE)
131 STORE MEFFDATE TO MOLDATE
132 SET COLOR TO /BR, /BR
133 @ 8,54 GET MOLDATE PICT "999999"
134 READ
135 DO WHILE .T.
136 IF .NOT. (SUBSTR(MOLDATE,1,2) > "83" .AND.
137 SUBSTR(MOLDATE,1,2) < "99") THEN
138 SET COLOR TO W/B, W/B
139 @ 24,0 SAY SPACE(80)
140 SET COLOR TO W+/R, W+/R
141 @ 24,16 SAY " Year portion of date must be between 84 and 99 "
142 DO DELAY
143 SET COLOR TO /W, /W
144 @ 24,0 SAY MESSAGE
145 STORE SUBSTR(MEFFDATE,1,2) TO MYEAR
146 SET COLOR TO /BR, /BR
147 @ 8,54 GET MYEAR PICT "99"
148 READ
149 STORE MYEAR + SUBSTR(MOLDATE,3,4) TO MOLDATE
150 LOOP

365
APPENDIX B: MAINTENANCE MANUAL

NEWDOCVT.PRG Program Listing

Page 4

151 | ELSE
152 | EXIT
153 | ENDIF
154 | ENDDO WHILE .T.
155 |
156 | DO WHILE .T.
157 | IF .NOT. (SUBSTR(MOLDATE,3,2) >= "01" .AND.;
158 | SUBSTR(MOLDATE,3,2) <= "12") THEN
159 | SET COLOR TO W/B, W/B
160 | @ 24,0 SAY SPACE(80)
161 | SET COLOR TO W+/R, W+/R
162 | @ 24,16 SAY " Month portion of date must be between 01 and 12 "
163 | DO DELAY
164 | SET COLOR TO /W, /W
165 | @ 24,0 SAY MESSAGE
166 | STORE SUBSTR(MEFDAT3E,3,2) TO MMTH
167 | SET COLOR TO /BR, /BR
168 | @ 8,56 GET MMTH PIC T"99"
169 | READ
170 | STORE SUBSTR(MOLDATE,1,2) = MMTH ;
171 | SUBSTR(MOLDATE,5,2) TO MOLDATE
172 | LOOP
173 | ELSE
174 | EXIT
175 | ENDIF
176 | ENDDO WHILE .T.
177 |
178 | DO WHILE .T.
179 | IF ((SUBSTR(MOLDATE,3,2) = "04" .OR. SUBSTR(MOLDATE,3,2) = "06" .OR.;
180 | SUBSTR(MOLDATE,3,2) = "09" .OR. SUBSTR(MOLDATE,3,2) = "11") .AND.;
181 | .NOT. (SUBSTR(MOLDATE,5,2) >= "01" .AND. SUBSTR(MOLDATE,5,2) <= "30"))
182 | SET COLOR TO W/B, W/B
183 | @ 24,0 SAY SPACE(80)
184 | SET COLOR TO W+/R, W+/R
185 | @ 24,16 SAY " Day portion of date must be between 01 and 30 
186 | DO DELAY
187 | SET COLOR TO /W, /W
188 | @ 24,0 SAY MESSAGE
189 | STORE SUBSTR(MEFDAT3E,5,2) TO MDAY
190 | SET COLOR TO /BR, /BR
191 | @ 8,56 GET MDAY PIC T"99"
192 | READ
193 | STORE SUBSTR(MOLDATE,1,4) = MDAY TO MOLDATE
194 | LOOP
195 | ELSE
196 | IF (SUBSTR(MOLDATE,3,2) = "02" .AND. .NOT.;
197 | (SUBSTR(MOLDATE,5,2) >= "01" .AND.;
198 | SUBSTR(MOLDATE,5,2) <= "28") THEN
199 | SET COLOR TO W/B, W/B
200 |
APPENDIX B: MAINTENANCE MANUAL  Page 230

Page 5  NEWDCVT.PRG Program Listing

201 | @ 24,0 SAY SPACE(80)
202 | SET COLOR TO W+/R, W+/R
203 | @ 24,16 SAY " Day portion of date must be between 01 and 28 "
204 | DO DELAY
205 | SET COLOR TO /W, /W
206 | @ 24,0 SAY MESSAGE
207 | STORE SUBSTR(MEFFDATE,5,2) TO MDAY
208 | SET COLOR TO /BR, /BR
209 | @ 8,58 GET MDAY PICT "99"
210 | READ
211 | STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
212 | LOOP
213 |
214 |
215 * IF .NOT. (SUBSTR(MOLDATE,5,2) >= "01" .AND.;
216 | SUBSTR(MOLDATE,5,2) <= "31") THEN
217 | SET COLOR TO W/B, W/B
218 | @ 24,0 SAY SPACE(80)
219 | SET COLOR TO W+/R, W+/R
220 | @ 24,16 SAY " Day portion of date must be between 01 and 31 "
221 | DO DELAY
222 | SET COLOR TO /W, /W
223 | @ 24,0 SAY MESSAGE
224 | STORE SUBSTR(MEFFDATE,5,2) TO MDAY
225 | SET COLOR TO /BR, /BR
226 | @ 8,58 GET MDAY PICT "99"
227 | READ
228 | STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
229 | LOOP
230 | ELSE
231 | EXIT
232 | ENDDIF
233 | ENDDIF
234 | ENDDIF
235 | ENDDO WHILE .T.
236 | ENDDO WHILE .NOT. (MOLDATE >= LODATE .AND. MOLDATE <= HIDATE)
237 *
238 | STORE MOLDATE TO MEFFDATE
239 | SET COLOR TO W/B, W/B
240 | @ 24,0 SAY SPACE(80)
241 | STORE SPACE(8) + "Enter site number of Delivery Order to be " +;
242 | "loaded to the database" + SPACE(8) TO MESSAGE
243 | SET COLOR TO /W, /W
244 | @ 24,0 SAY MESSAGE
245 | SET COLOR TO /BR, /BR
246 | @ 11,54 SAY SITENO PICT "99"
247 | @ 13,54 GET SITE PICT "99"
248 | READ
249 *
250 | DO WHILE .NOT. (MSITE >= LSite .AND. MSITE <= HSite)
APPENDIX B: MAINTENANCE MANUAL

NEWDOCVT.PRG Program Listing

IF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
  SET COLOR TO W/B, W/B
  @ 24,0 SAY SPACE(80)
  SET COLOR TO W+/R, W+/R
  STORE ' Response must be between '+ LOSITE + ;
  ' and ' + HISITE + ' TO ERROR
  @ 24,21 SAY ERROR
  DO DELAY
  SET COLOR TO /W, /W
  @ 24,0 SAY MESSAGE
  SET COLOR TO /BR, /BR
  STORE '01' TO MSITE
  @ 13,54 GET MSITE PICT "99"
  READ
ENDIF
ENDDO

ASK THE USER IF THE INPUTS ARE VALID OR NOT

SET COLOR TO W+/B, W+/B
@ 24,0 SAY SPACE(80)
@ 16,17 SAY CORRECT
SET COLOR TO R+/B, R+/B
@ 16,49 SAY "Y"
@ 16,56 SAY "N"
STORE "N" TO ACCEPT
@ 16,62 GET ACCEPT PICT "!"
READ

ENSURE THAT THE RESPONSE IS EITHER "Y" OR "N"

DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
  IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
    SET COLOR TO W+/R, W+/R
    @ 24,24 SAY " Response must be either N or Y "
    DO DELAY
    STORE "N" TO ACCEPT
  ENDIF
  SET COLOR TO R+/B, R+/B
  @ 16,62 GET ACCEPT PICT "!
  READ
ENDDO

SET COLOR TO W+/B, W+/B
@ 16,15 SAY SPACE(55)

IF ACCEPT = "Y" THEN

ASK THE USER IF THE "PRN" FILE IS TO BE ERASED

SET COLOR TO W+/B, W+/B
APPENDIX B: MAINTENANCE MANUAL

NEWDOCVT.PRG Program Listing

301 STORE "Do you want to erase the input file " + DBNAME + ";
302 @ 16,10 SAY MESSAGE
303 STORE "N" TO ERASIT
304 SET COLOR TO R+/B, R+/B
305 @ 16,46 SAY DBNAME
306 @ 16,45+LEN(DBNAME)+5 SAY "Y"
307 @ 16,45+LEN(DBNAME)+12 SAY "N"
308 @ 16,45+LEN(DBNAME)+17 GET ERASIT PICT ":!"
309 READ
310
311 ENSURE THAT THE RESPONSE IS EITHER "Y" OR "N"
312
313 DO WHILE .NOT. (ERASIT = "N" .OR. ERASIT = "Y")
314 IF .NOT. (ERASIT = "N" .OR. ERASIT = "Y") THEN
315 SET COLOR TO W+/R, W+/R
316 @ 24,24 SAY " Response must be either N or Y "]
317 DO DELAY
318 SET COLOR TO W+/B, W+/B
319 @ 16,45+LEN(DBNAME)+17 GET ERASIT PICT ":!"
320 ENDIF
321 SET COLOR TO W+/B, W+/B
322 @ 16,45+LEN(DBNAME)+17 GET ERASIT PICT ":!"
323 READ
324 ENDDO
325 SET COLOR TO W+/B, W+/B
326 @ 16,10 SAY SPACE(65)
327 IF ERASIT = "Y" THEN
328 ERASE &DBNAME
329 ENDIF
330 EXIT
331 ELSE
332 SET COLOR TO /BR, /BR
333 @ 8,54 SAY " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " "
APPENDIX B: MAINTENANCE MANUAL

Page 8

NEWDOCVT.PRG Program Listing

351 IF EOF() = .T. THEN
352 DO NEWDOADD
353 ELSE
354 SET COLOR TO R+/B, R+/B
355 @ 16,21 SAY " THIS IS A DUPLICATE DELIVERY ORDER! ">
356 SET COLOR TO W+/B, W+/B
357 @ 17,17 SAY " Do you still desire to load it? (Yes or No): "
358 SET COLOR TO R+/B, R+/B
359 @ 17,51 SAY "Y"
360 @ 17,58 SAY "N"
361 STORE "N" TO ACCEPT
362 @ 17,63 GET ACCEPT PICT ":!"
363 READ
364 DO WHILE NOT. (ACCEPT = "N" OR. ACCEPT = "Y")
365 IF NOT. (ACCEPT = "N" OR. ACCEPT = "Y") THEN
366 SET COLOR TO W+/R, W+/R
367 @ 24,24 SAY " Response must be either N or Y ">
368 DO DELAY
369 STORE "N" TO ACCEPT
370 ENDIF
371 SET COLOR TO R+/B, R+/B
372 @ 17,63 GET ACCEPT PICT ":!"
373 READ
374 ENDDO
375 SET COLOR TO W/B, W/B
376 @ 16,20 SAY SPACE(50)
377 @ 17,15 SAY SPACE(55)
378 IF ACCEPT = "Y" THEN
379 DO NEWDOADD
380 ENDIF
381 ENDIF
382 *
383 CHECK TO SEE IF THERE ARE MORE DELIVERY ORDERS TO BE ADDED.
384 *
385 SET COLOR TO R+/B, R+/B
386 STORE "N" TO CHOICE
387 @ 21,68 GET CHOICE PICT ":!"
388 READ
389 *
390 ENSURE THAT THE RESPONSE IS EITHER "Y" OR "N"
391 *
392 DO WHILE NOT. (CHOICE = "N" OR. CHOICE = "Y")
393 IF NOT. (CHOICE = "N" OR. CHOICE = "Y") THEN
394 SET COLOR TO W+/R, W+/R
395 @ 24,24 SAY " Response must be either N or Y ">
396 DO DELAY
397 STORE ":?" TO CHOICE
398 ENDIF
399 SET COLOR TO R+/B, R+/B
APPENDIX B: MAINTENANCE MANUAL

NEWDOCVT.PRG Program Listing

401   @ 21,68 GET CHOICE PICT "!"
402   READ
403   IF CHOICE = "N" THEN
404   EXIT
405   ELSE
406   SET COLOR TO W/B, W/B
407       @ 19,10 SAY SPACE(65)
408       @ 21,68 SAY ""
409       SET COLOR TO /BR, /BR
410       @ 8,54 SAY ""
411       @ 11,54 SAY ""
412       @ 13,54 SAY ""
413       ENDIF
414   ENDDO WHILE .T.
415 *   ERASE ALL TEMPORARY DBF FILES CREATED DURING THE LOAD
416 *   SET COLOR TO R+/, R+/
417 *     @ 15,26 SAY "ERASING TEMPORARY DATABASES"
418 *       CLOSE DATABASES
419   KEEP CONSOLE OFF
420   KEEP TEMP.DBF
421 *   KEEP NEWDOMOD.DBF
422 *   KEEP SERNYTIP.DBF
423 *       SET CONSOLE ON
424 *       RELEASE ALL LIKE M*, ACCEPT, CHOICE, CORRECT, DNNAME, ERASIT, ERRORS,;
425 *       NOFILE, SYSDATE
426   RETURN
427 *   ************************************************************
PROCEDURE PRJRPTS.PRG

AUTIORS LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

PURPOSE: PROVIDE THE USER A SELECTION OF PROJECT LEVEL REPORTS.

INPUT FILES: NONE.

OUTPUT FILES: NONE.

CALLED BY: REPORTCMD.PRG

MODULES CALLED: EQPJPRPT.PRG, SNOPJRPT.PRG

LOCAL VARIABLES: PRJRPTS

DATE LAST TIME MODIFIED = 18 DECEMBER 1985

DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE SELECTION.

STORE "1" TO PRJRPTS

DO WHILE PRJRPTS < "3"

SET COLOR TO W/B, W/B, B
CLEAR
?? FLASH + "W.PRJRPTS/
SET CONSOLE OFF
WAIT TO PRJRPTS
SET CONSOLE ON

PROCESS ROUTINE BASED ON THE USER'S SELECTION.

DO CASE

CALL THE EQUIPMENT PROJECT LEVEL REPORT.
CASE PRJRPTS = "1"

DO EQPJPRPT

CALL THE SERIAL NUMBER PROJECT LEVEL REPORT.
CASE PRJRPTS = "2"

DO SNOPJRPT

RETURN TO THE SPLICE REPORTING LEVEL MENU.
CASE PRJRPTS = "3"

ENDCASE

ENDDO (WHILE PRJRPTS = "3")
PROJRPTS.PRG Program Listing

51 | *
52 | * RETURN TO THE CALLING PROGRAM
53 | *
54 | RETURN
55 | ***************************************************************
PROCEDURE REPORCMD.PRG

AUTHORS: LCDR EDWARD J. CASE, SC, USN
         LCDR WINSTON H. BUCKLEY, SC, USN
         LCDR ROBERT F. BRADO, USN
         LCDR ROBERT L. BEARD III, SC, USN

PURPOSE: PROVIDE THE USER AN OPPORTUNITY TO SELECT A REPORT
LEVEL - PROJECT LEVEL, SITE LEVEL, OR DELIVERY ORDER DATE LEVEL.

INPUT FILES: NONE.
OUTPUT FILES: NONE.

MODULES CALLED: PROJRTPS.PRG, SITERPS.PRG, LATZRTPS.PRG

LOCAL VARIABLES: SELECT

DATE LAST TIME MODIFIED = = = 22 DECEMBER 1985 = = =

DISPLAY REPORT LEVEL MENU TO THE USER AND WAIT FOR THE SELECTION.

STORE "1" TO SELECT
DO WHILE SELECT < "4"
    SET COLOR TO W/B, W/B, B
    CLEAR
    ?? FLASH "W.REPORCMD/"
    SET CONSOLE OFF
    WAIT TO SELECT
    SET CONSOLE ON

PROCESS PICTURE BASED ON THE USER'S SELECTION.

DO CASE

    CALL THE PROJECT LEVEL REPORTS PROGRAM.
    CASE SELECT = "1"
    DO PROJRTPS

    CALL THE SITE LEVEL REPORTS PROGRAM.
    CASE SELECT = "2"
    DO SITERPS

    CALL THE EFFECTIVE DELIVERY ORDER DATE LEVEL REPORTS PROGRAM.
    CASE SELECT = "3"
    DO DATERTPS

RETURN TO THE MAIN MENU PROGRAM.
CASE SELECT = "4"
APPENDIX B: MAINTENANCE MANUAL

Page 2

REPORCMD.PRG Program Listing

51 | *
52 | ENDCASE
53 | *
54 | ENDDO (WHILE SELEKT < "4")
55 | *
56 | RETURN TO THE CALLING PROGRAM
57 | *
58 | RETURN
59 | ***********************************************
SELECTOR.PRG Program Listing

* PROCEDURE NAME : SELECTOR.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : TO PERMIT THE USER TO SELECT THE DESIRED PROCESSING ACTION. CHOICES INCLUDE: THE SPLICE CONFIGURER, LOTUS 1-2-3 FOR "WHAT-IF" ANALYSIS, AND THE dBASE III SPICE CONFIGURATION MANAGEMENT SYSTEM. CHANGES TO ACTIVE DIRECTORIES AND CALLS TO dBASE EXTERNAL PROGRAMS ARE EFFECTED WITH THE dBASE "RUN" COMMAND.

* INPUT FILES : NONE.

* OUTPUT FILES : NONE.

* MODULES CALLED : SPLICE.COM; 123.EXE, MAINMENU.PRG, DELAY.PRG, WS.COM

* GLOBAL VARIABLE: FLASH

* LOCAL VARIABLES: ANS

* DATE LAST TIME MODIFIED =============> 18 DECEMBER 1985 =============>

* DBASE PROGRAM CONFIGURATION VARIABLES:

SET BELL OFF
SET CONSOLE ON
SET INTENSITY OFF
SET SCOREBOARD OFF
SET TALK OFF

DISPLAY TITLE PROCESS MENU USER WAIT FOR USER'S CHOICE.

PUBLIC FLASH
?? CHR(145) + "L.SPLICE.WIN/"
STORE "1" TO ANS
DO WHILE .T.
SET COLOR TO W+/B, W+/B, B
CLEAR
FLASH = CHR(145)
?? FLASH + "S.SELECl OR.SCR/"
@ 24,0 SAY SPACE (80)
SET COLOR TO R+/B,R+/B
@ 21,53 GET ANS PICI "9"
READ
DO WHILE (ANS < "1" .OR. ANS > "6")
IF (ANS < "1" .OR. ANS > "6") THEN
SET COLOR TO W+/R,W+/R
@ 24,23 SAY "Response must be between 1 and 6"
DO DELAY
STORE "1" TO ANS
ENDIF
SET COLOR TO R+/B,R+/B
@ 21,53 GET ANS PICT "9"
READ
ENDDO

* PERFORM APPROPRIATE TASK BASED ON THE USER'S CHOICE.

DO CASE

* CHANGE THE ACTIVE DIRECTORY TO TURBO AND CALL SPLICE.COM.
* COPY THE OUTPUT .PRN FILE TO THE dBASE III SUBDIRECTORY.
CASE ANS = "1"
RUN CD\TURBO
RUN SPLICE.COM
RUN COPY *.PRN \DBASEIII\*.PRN
RUN CD\DBASEIII
STORE "1" TO ANS

* CHANGE THE ACTIVE SUBDIRECTORY TO LOTUS AND CALL 123.EXE. THE USER
* SUBDIRECTORY WHILE IN LOTUS MUST BE dBASE III.
CASE ANS = "2"
RUN CLS
RUN ECHO WHEN IN 123, CHANGE THE DEFAULT DIRECTORY TO DBASEIII
RUN PAUSE
RUN CD\LOTUS
RUN 123
RUN CD\DBASEIII
STORE "2" TO ANS

* CALL THE CONFIGURATION MANAGEMENT SYSTEM dBASE III PROGRAM
CASE ANS = "3"
DO MAINMENU
STORE "3" TO ANS

* CHANGE THE ACTIVE DIRECTORY TO WORDSTAR AND EDIT THE USER'S MANUAL.
CASE ANS = "4"
RUN CLS
RUN CD\WORDSTAR
RUN COPY USERS.MAN SPLICE.MAN
RUN WS.COM SPLICE.MAN
RUN DEL SPLICE.MAN
APPENDIX B: MAINTENANCE MANUAL

Page 3

SELECTOR.PRG Program Listing

101 | RUN CD\DBASEIII
102 | STORE "4" TO ANS
103 | *
104 | *
105 | RETURN THE USER TO dBASE SYSTEM CONTROL.
106 | *
107 | CASE ANS = "5"
108 | CLEAR
109 | CLEAR ALL
110 | EXIT
111 | *
112 | RETURN THE USER TO OPERATING SYSTEM CONTROL.
113 | *
114 | CASE ANS = "6"
115 | CLEAR
116 | CLEAR ALL
117 | STORE 0 TO CONTINUE
118 | QUIT
119 | *
120 | ENDCASE
121 | *
122 | CONTINUE PROCESSING LOOP CONTROL CHECK.
123 | *
124 | ENDDO WHILE .T.
125 | ****************************************************
* PROCEDURE SERNOBLD.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : TO BUILD BLANK SERIAL NUMBER RECORDS.

* INPUT FILES : SERNOTMP.DBF

* OUTPUT FILES : SERNOTMP.DBF

* MODULES CALLED : NONE

* CALLED BY : NEWDOADD.PRG

* LOCAL VARIABLES: CIXJI7I'Y, INITIAL, MEFFDATE, MFEATURE, MUY,
* MSERIALN, MSITE, REC_COUNT

* DATE LAST TIME MODIFIED =============> 23 DECEMBER 1985 ==========

* IF NOT EOF, DETERMINE THE COMPONENT QUANTITY. WHILE THE QUANTITY
* IS GREATER THAN 1, BUILD AND EXPAND A BLANK SERIAL NUMBER RECORD.

STORE 1 TO INITIAL
USE SERNOTMP
GO TOP
DO WHILE .T.
    IF EOF() = .T. THEN
        EXIT
    ELSE
        IF INITIAL = 1 THEN
            SET COLOR TO GR+/B, GR+/B
            @ 17,21 SAY "FEATURE:"
            @ 17,40 SAY "RECORD NUMBER:"
            @ 19,18 SAY "Building and expanding sub-record"
            @ 19,56 SAY "of"
            STORE 0 TO INITIAL
        ENDIF
        SET COLOR TO /BR, /BR
        @ 17,31 SAY FEATURESNO PICT "999999"
        SET COLOR TO R+/B, R+/B
        @ 17,55 SAY RECNO() PICT "999999"
        SET COLOR TO W+/BG, W+/BG
        STORE 1 TO REC_COUNT
    ENDIF
    SET COLOR TO /BR, /BR
    @ 17,31 SAY FEATURESNO PICT "999999"
    SET COLOR TO R+/B, R+/B
    @ 17,55 SAY RECNO() PICT "999999"
    SET COLOR TO W+/BG, W+/BG
    STORE 1 TO REC_COUNT
ENDIF
SERNOBLD.PRG Program Listing

51  @ 19,59 SAY QTY PICT "999"
52  STORE EFFDATE TO MEFFDATE
53  STORE SITENO TO MSITE
54  STORE FEATURENO TO MFEATURE
55  STORE QTY TO MQTY, CRQTY
56  REPLACE TOTQTY WITH MQTY
57  STORE ' ' TO MSERIALN
58  DO WHILE MQTY > 1
59    REC_COUNT = REC_COUNT + 1
60      @ 19,52 SAY REC_COUNT PICT "999"
61      INSERT BLANK
62      REPLACE TOTQTY WITH CRQTY
63      REPLACE QTY WITH MQTY - 1
64      REPLACE EFFDATE WITH MEFFDATE
65      REPLACE SITENO WITH MSITE
66      REPLACE FEATURENO WITH MFEATURE
67      REPLACE SERIALNO WITH MSERIALN
68      MQTY = MQTY - 1
69      ENDDO WHILE MQTY > 1
70 *
71     SKIP
72     ENDF EOF() = .T.
73 *
74     ENDDO WHILE .T.
75 *
76     * CLEAR OUT THE STATUS FIELD LINES
77 *
78     SET COLOR TO W+/B, W+/B
79     @ 15,10 SAY SPACE(60)
80     @ 17,10 SAY SPACE(60)
81     @ 19,10 SAY SPACE(60)
82 *
83     * RETURN TO THE CALLING PROGRAM
84 *
85     RELEASE ALL LIKE M*, CTOTQTY, INITIAL, REC_COUNT
86     CLOSE DATABASES
87     RETURN
88

******************************************************************************
* PROCEDURE SERNOCMD.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : PROVIDE THE USER THE OPPORTUNITY TO INPUT
* THE COMPONENT SERIAL NUMBER OR REVIEW THE
* SERIAL NUMBER DATABASE RECORDS.

* INPUT FILES : NONE

* OUTPUT FILES : NONE

* CALLED BY : MAINMENU.PRG

* MODULES CALLED : SERNOUPD.PRG, SERNOREV.PRG

* LOCAL VARIABLES: SELEKT

* DATE LAST TIME MODIFIED: 26 DECEMBER 1985

* DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE SELECTION.

STORE "1" TO SELEKT
DO WHILE SELEKT < "3"
    SET COLOR TO W/B, W/B, B
    CLEAR
    ?? FLASH + "W.SERNOCMD/
    SET CONSOLE OFF
    WAIT TO SELEKT
    SET CONSOLE ON
* PROCESS ROUTINE BASED ON THE USER'S SELECTION.

DO CASE

* CALL THE SERIAL NUMBER UPDATE PROGRAM.
CASE SELEKT = "1"
    DO SERNOUPD

* CALL SERIAL NUMBER REVIEW PROGRAM.
CASE SELEKT = "2"
    DO SERNOREV

* RETURN TO THE MAIN MENU PROGRAM.
CASE SELEKT = "3"

ENDCASE
Page 2

SERNCMD.PRG Program Listing

51 *
52 ENDDO (WHILE SELEKT < "3")
53 *
54 * RETURN TO THE CALLING PROGRAM
55 *
56 RETURN
57 ********************************************
PROCEDURE SERNOREV.PRG

* AUTHORS
  LCDR EDWARD J. CASE, SC, USN
  LCDR WINSTON H. BUCKLEY, SC, USN
  LCDR ROBERT F. BRADO, USN
  LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE
  TO ENABLE THE USER TO REVIEW ALL RECORDS IN THE SERIAL NUMBER DATABASE.

* INPUT FILES
  SERIALNO.DBF, SERNOSIT.NDX

* OUTPUT FILES
  SERIALNO.DBF, SERNOSIT.NDX

* CALLED BY
  SERNOCMND.PRG

* MODULES CALLED
  DELAY.PRG

* GLOBAL VARIABLE:
  HIFNUM, HISITE, LOFNUM, LOSITE

* LOCAL VARIABLES:
  ACCEPT, CHOICE, CURRENTNO, NOT, FIRST_REC, LAST_REC,
  MFEAT, MFEATURE, MSITE, TOF

* DATE LAST TIME MODIFIED: 26 DECEMBER 1985

CASE SELECTION = 2
REVIEW SERIAL NUMBER FILE RECORDS

USER TO INPUT THE SITE NUMBER, THEN START REVIEWING FROM THAT POINT.

SET ESCAPE OFF
SET TALK OFF
SELECT 1
USE SERIALNO
GO TOP
SET COLOR TO W+/B, W+/B, B
CLEAR
IF DOP() = .T. THEN
  SET COLOR TO W+/R, W+/R
  # 13,22 SAY " The SERIAL NUMBER DATABASE is EMPTY! "
  DO DELAY
  RETURN
ENDIF
?? FLASH + "S_SERIALNO.SCR"
SET COLOR TO W+/B, W+/B
# 24,0 SAY SPACE(100)
SET COLOR TO R+/ , R+/+
# 3,26 SAY " SERIAL NUMBER REVIEW DISPLAY "
?THE " Enter 00 to start at TOP, or to start at DOP of a site number " ;
" between " a SITE # " and " a SITE # " as NUMBER;
APPENDIX B: MAINTENANCE MANUAL

SERNOREV.PRG Program Listing

```plaintext
* DO WHILE .T.
  SET COLOR TO /W, /W
  @ 24,0 SAY MESSAGE
  SET COLOR TO /BR, /BR
  STORE '00' TO MSITE
  @ 09,20 GET MSITE PICT '99'
  READ
  IF .NOT. ((MSITE = '00' .AND. MSITE <= HISITE) .OR.
    MSITE = '99') THEN
    SET COLOR TO W/B, W/B
    @ 24,0 SAY SPACE(80)
    SET COLOR TO W/R, W/R
    STORE ' Response must be between ' + LOSITE + ' and ' +;
    HISITE + ', Zero (00) or 99 ' TO ERROR
    @ 24,13 SAY ERROR
    DO DELAY
    LOOP
  ELSE
    IF (MSITE = '00' .OR. MSITE = '99') THEN
      IF MSITE = '00' THEN
        GO BOTTOM
        STORE RECNO() TO LAST_REC
        GO TOP
        STORE RECNO() TO FIRST_REC
      ELSE
        GO TOP
        STORE RECNO() TO FIRST_REC
        GO BOTTOM
        STORE RECNO() TO LAST_REC
      ENDIF MSITE = '00'
    EXIT
    ELSE
      USE SERIALNO INDEX SERNSITE
      GO TOP
      FIND MSITE
      IF EOF() = .T. THEN
        SET COLOR TO W/B, W/B
        @ 24,0 SAY SPACE(80)
        SET COLOR TO W/R, W/R
        STORE ' No records exist for site number " + MSITE + " , try again " TO ERROR
        @ 24,16 SAY ERROR
        DO DELAY
        LOOP
      ELSE
        EXIT
      ENDIF EOF() = .T.
      ENDIF (MSITE = '00' .OR. MSITE = '99')
    ENDIF .NOT. ((MSITE = '00' .AND. MSITE <= HISITE) .OR. MSITE = '99')
```

384
101  ENDDO WHILE .T.
102  *
103  STORE SPACE(10) + 'Enter "00 " to start at TOF or a six digit '+';
104  'feature number' + SPACE(10) TO MESSAGE
105  IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
106    DO WHILE .T.
107      SET COLOR TO /W, /W
108      @ 24,0 SAY MESSAGE
109      SET COLOR TO /BR, /BR
110      STORE '00 ' TO MFEAT
111      @ 13,45 GET MFEAT PICT '999999'
112      READ
113      IF .NOT. ((MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM) .OR.;
114        MFEAT = '00 ') THEN
115        SET COLOR TO W/B, W/B
116        @ 24,0 SAY SPACE(80)
117        SET COLOR TO W+/R, W+/R
118        STORE ' Response must be between ' + LOFNUM + ' and ' +;
119        HIFNUM + ' or Zero (00) ' TO ERROR
120        @ 24,9 SAY ERROR
121        DO DELAY
122        LOOP
123  ELSE
124    IF (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
125      IF MFEAT = '99 ' THEN
126        SET COLOR TO W/B, W/B
127        @ 24,0 SAY SPACE(80)
128        SET COLOR TO W+/R, W+/R
129        STORE ' Response must be between ' + LOFNUM +;
130          ' and ' + HIFNUM + ' or Zero (00) ' TO ERROR
131        @ 24,9 SAY ERROR
132        DO DELAY
133        LOOP
134    ENDIF MFEAT = '99 '
135    STORE MSITE + MFEAT TO MKEY
136    USE SERIALNO INDEX SERNUFEA
137    GO TOP
138    FIND &MKEY
139    IF EOF() = .T. THEN
140      SET COLOR TO W/B, W/B
141      @ 24,0 SAY SPACE(80)
142      SET COLOR TO W+/R, W+/R
143      STORE " No record with feature number " + MFEAT +;
144          " exists, try again " TO ERROR
145      @ 24,12 SAY ERROR
146      DO DELAY
147      LOOP
148    ELSE
149      EXIT
150    ENDIF EOF() = .T.
APPENDIX B: MAINTENANCE MANUAL

SERMREV.PRG Program Listing

151 | ELSE
152 | EXIT
153 | ENDF (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
154 | ENDF
155 | ENDDO WHILE .T.
156 | ENDF .NOT. (MSITE >= LOSITE .OR. MSITE <= HISITE)
157 | *
158 | STORE " At beginning of records for site number " +;
159 | MSITE + " " TO TOF
160 | STORE " At end of records for site number " + MSITE + " " TO EOF
161 | SET COLOR TO W/B, W/B
162 | @ 24,0 SAY SPACE(80)
163 | *
164 | DO WHILE .T.
165 | *
166 | USING THE SERIAL NUMBER REVIEW FORMAT FILE TO PRODUCE THE SCREEN
167 | DISPLAY, IF NOT AT THE END OF FILE.
168 | *
169 | STORE FEATURENO TO MFEATURE
170 | SELECT 2
171 | USE DESCRIP INDEX DESCRIP
172 | FIND &MFEA'IURE
173 | STORE CLIN TO MCLIN
174 | STORE DESCRIPT TO MDESCRIPT
175 | SELECT 1
176 | SET COLOR TO R+/B, R+/B
177 | @ 6,45 SAY RECNO( ) PICT "9999"
178 | SET COLOR TO /BR, /BR
179 | @ 9,20 SAY SITENO PICT "99"
180 | @ 9,68 SAY EFFDATE PICT "999999"
181 | @ 12,45 SAY MCLIN PICT "9999"
182 | @ 13,45 SAY FEATURENO PICT "999999"
183 | @ 14,45 SAY MDESCRIPT PICT "!!!!!!!!!!!!!!!!!!!!!!!"
184 | @ 15,45 SAY TOTALY PICT "999"
185 | SET COLOR TO W+BG, W+BG
186 | @ 17,45 SAY QTY PICT "999"
187 | @ 17,52 SAY TOTALY PICT "999"
188 | SET COLOR TO /BR, /BR
189 | @ 19,45 SAY SERIALNO PICT "!!!!!!!!!!" 
190 | ENDF
191 | *
192 | SET COLOR TO R+/B, R+/B
193 | STORE "N" TO CHOICE
194 | @ 22,68 GET CHOICE PICT ":"
195 | READ
196 | *
197 | ENSURE THAT THE USER'S PROMPT IS EITHER "N", "P" OR "X"
198 | *
199 | DO WHILE .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X")
200 | IF .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X") THEN
201 SET COLOR TO W+/R, W+/R
202 @ 24,23 SAY " Response must be either N, P or X "
203 DO DELAY
204 STORE "N" TO CHOICE
205 ENDIF
206 SET COLOR TO R+/B, R+/B
207 @ 22,68 GET CHOICE PICT ";"
208 READ
209 ENDDO
210 *
211 SET COLOR TO W+/R, W+/R
212 *
213 * SKIP TO THE NEXT RECORD TO BE REVIEWED
214 *
215 IF CHOICE = "N" THEN
216 IF (MSITE = LOSITE .AND. MSITE <= HISITE) THEN
217 SKIP
218 IF EOF() = .T. THEN
219 SKIP - 1
220 @ 24,21 SAY EOF
221 DO DELAY
222 LOOP
223 ELSE
224 IF .NOT. (SITENO = MSITE) THEN
225 SKIP - 1
226 @ 24,21 SAY EOF
227 DO DELAY
228 LOOP
229 ENDIF
230 ENDIF EOF() = .T.
231 ELSE
232 IF RE.Nav() = LAST_REC THEN
233 GO TOP
234 ELSE
235 SKIP
236 ENDIF
237 ENDIF (MSITE = LOSITE .AND. MSITE <= HISITE)
238 ENDF CHOICE = "N"
239 *
240 * SKIP TO THE PREVIOUS RECORD
241 *
242 IF CHOICE = "P" THEN
243 STORE RECNO() TO CURRENT REC
244 IF (MSITE = LOSITE .AND. MSITE <= HISITE) THEN
245 SKIP - 1
246 IF EOF() = .T. THEN
247 GO TO (CURRENT REC)
248 @ 24,16 SAY EOF
249 DO DELAY
250 LOOP
APPENDIX B: MAINTENANCE MANUAL

SERNOREV.PRG Program Listing

251 ELSE
252 IF NOT (SITENO = MSITE) THEN
253 SKIP
254 @ 24,16 SAY TOF
255 DO DELAY
256 LOOP
257 ENDF
258 ENDF BOF() = .T.
259 ELSE
260 IF RECN() = FIRST_REC THEN
261 GO BOTTOM
262 ELSE
263 SKIP - 1
264 ENDF
265 ENDF (MSITE >= LOSITE .AND. MSITE <= HISITE')
266 ENDF CHOICE = "P"
267 *
268 USER HAS DECIDED TO EXIT THE REVIEW
269 *
270 IF CHOICE = "X"
271 EXIT
272 ENDF
273 ENDSO WHILE .T.
274 *
275 RETURN TO CALLING PROGRAM.
276 *
277 RELEASE ALL LIKE M*: ACCEPT, CHOICE, CURRENTNO, BOF, FIRST_REC,;
278 LAST_REC, TOF
279 CLOSE DATABASES
280 RETURN
281 *******************************************************
* PROCEDURE SERNOUPD.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : TO ENABLE THE USER TO INPUT THE SERIAL NUMBERS FOR
* THE SERIAL NUMBER DATABASE.

* INPUT FILES : SERIALNO.DBF, SERNOSIT.NDX

* OUTPUT FILES : SERIALNO.DBF, SERNOSIT.NDX

* CALLED BY : SERNOCMD.PRG

* MODULES CALLED : DELAY.PRG

* GLOBAL VARIABLE: IIDATE, HIFNUM, HISITE, LDDATE, LWFNUM, LWSITE

* LOCAL VARIABLES: ACCEPT, ANS, CHOICE, CURRENTNO, EOF, INTRO, MDAY,;
* MESSAGE, MMONTH, MOLDATE, MYEAR, NOFIND, SYSDATE, TOF

* DATE LAST TIME MODIFIED ===========> 26 DECEMBER 1985 <==========

* CASE SELECTION = 2 REVIEW SERIAL NUMBER FILE RECORDS

* USE SERIAL NUMBER DATABASE INDEXED ON SITE NUMBER AND WAIT FOR THE
* USER TO INPUT THE SITE NUMBER, THEN START REVIEWING FROM THAT POINT.

SET ESCAPE OFF
SET TALK OFF
SELECT 1
USE SERIALNO
GO TOP
SET COLOR TO W+B, W+B, B
CLEAR
IF EOF() = .T. THEN
  SET COLOR TO W/R, W/R
  @ 13,22 SAY "The SERIAL NUMBER Database is EMPTY!"
  TO DELAY
  RETURN
ENDIF
?? FLASH + "S.SERIALNO.SCR/"
SET COLOR TO W+B, W+B
@ 24,0 SAY SPACE(80)
SET COLOR TO R+/ , R+/;
@ 3,26 SAY " SERIAL NUMBER UPDATE FORMAT "
STORE SPACE(22) + "Enter a Site Number between " + HISITE ;

389
APPENDIX B: MAINTENANCE MANUAL

Page 253

SERNOUPD.PRG Program Listing

" and " + HISITE + SPACE(21) TO MESSAGE
52 USE SERIALNO INDEX SERNOSIT
53 *
54 DO WHILE .T.
55 SET COLOR TO /W, /W
56 @ 24,0 SAY MESSAGE
57 SET COLOR TO /BR, /BR
58 STORE LOSITE TO MSITE
59 @ (9,2) SET WRITE PICT '99'
60 READ
61 IF NOT. (MSITE = LOSITE )AND. MSITE = HISITE)
62 SET COLOR TO W/B, W/B
63 @ 24,0 SAY SPACE(80)
64 SET COLOR TO W/R, W/R
65 STORE " No records exist for site number " + LOSITE +;
66 " try again " TO ERROR
67 @ 24,16 SAY ERROR
68 DO DELAY
69 LOOP
70 ELSE
71 DO TOP
72 FIND MSITE
73 IF EOF() = .T. THEN
74 SET COLOR TO W/B, W/B
75 @ 24,0 SAY SPACE(80)
76 SET COLOR TO W/R, W/R
77 STORE " No records exist for site number " + MSITE +;
78 " try again " TO ERROR
79 @ 24,16 SAY ERROR
80 DO DELAY
81 LOOP
82 ELSE
83 EXIT
84 END IF EOF() = .T.
85 END DO NOT. (MSITE = LOSITE )AND. MSITE = HISITE)
86 END DO WHILE .NOT. (MSITE = LOSITE )AND. MSITE = HISITE)
87 *
88 STORE SPACE(17) + 'Input Effective Date (Range ' + MSDATE + ;
89 ' to ' + HELPDATE + ') ' + SPACE(17) TO MESSAGE
90 STORE DTODATE() TO SYSDATE
91 STORE SUBSTR(SYSDATE, 2) + SUBSTR(SYSDATE, 4, 2) *;
92 SUBSTR(SYSDATE, 4, 2) TO MDATE
93 STORE 0 TO NOFIND
94 STORE "000000" TO MDATE
95 USE SERIALNO INDEX SERNODAT
96 *
97 DO WHILE .NOT. (MDATE = HDATE )AND. MDATE = IHDATE)
98 SET COLOR TO /W, /W
99 @ 24,0 SAY MESSAGE
100 STORE MDATE TO MDATE
APPENDIX B: MAINTENANCE MANUAL

SERNOUPD.PRG Program Listing

```
101 SET COLOR TO /BR, /BR
102 @ 9,68 GET MOLDATE PICT "999999"
103 READ
104 DO WHILE .T.
105 IF .NOT. (SUBSTR(MOLDATE,1,2) > "83" .AND.
106     SUBSTR(MOLDATE,1,2) <= "99") THEN
107    SET COLOR TO W/B, W/B
108    @ 24,0 SAY SPACE(80)
109    SET COLOR TO W+R, W+R
110    STORE " Year portion of date must be between 84 and 99 ";
111    TO ERROR
112    @ 24,16 SAY ERROR
113    DO DELAY
114    SET COLOR TO /W, /W
115    @ 24,0 SAY MESSAGE
116    STORE SUBSTR(MOLDATE,1,2) TO MYEAR
117    SET COLOR TO /BR, /BR
118    @ 9,68 GET MYEAR PICT "99"
119    READ
120    STORE MYEAR + SUBSTR(MOLDATE,3,4) TO MOLDATE
121    LOOP
122 ELSE
123    EXIT
124 END DO WHILE .T.
125 * DO WHILE .T.
126     IF .NOT. (SUBSTR(MOLDATE,1,2) >= "01" .AND.
127         SUBSTR(MOLDATE,1,2) <= "12") THEN
128        SET COLOR TO W/B, W/B
129        @ 24,0 SAY SPACE(80)
130        SET COLOR TO W+R, W+R
131        @ 24,16 SAY " Month portion of date must be between 01 and 12 ";
132        DO DELAY
133        SET COLOR TO /W, /W
134        @ 24,0 SAY MESSAGE
135        STORE SUBSTR(MOLDATE,3,2) TO MMNTH
136        SET COLOR TO /BR, /BR
137        @ 9,70 GET MMNTH PICT "00"
138        READ
139        STORE SUBSTR(MOLDATE,1,2) + MMNTH ";
140        SUBSTR(MOLDATE,5,2) TO MOLDATE
141        LOOP
142 ELSE
143    EXIT
144 END IF
145 END DO WHILE .T.
```

391
APPENDIX B: MAINTENANCE MANUAL

SERNOUPD.PRG Program Listing

151 | SUBSTR(MOLDATE,3,2)="09" . OR. SUBSTR(MOLDATE,3,2)="11") . AND.;
152 | . NOT. (SUBSTR(MOLDATE,5,2)="01") . AND.;
153 | SUBSTR(MOLDATE,5,2)="30") THEN
154 | SET COLOR TO W/B, W/B
155 | @ 24,0 SAY SPACE(80)
156 | SET COLOR TO W+/R, W+/R
157 | @ 24,16 SAY "Day portion of date must be between 01 and 30"
158 | DO DELAY
159 | SET COLOR TO /W, /W
160 | @ 24,0 SAY MESSAGE
161 | STORE SUBSTR(MDATE,5,2) TO MDAY
162 | SET COLOR TO /BR, /BR
163 | @ 9,72 GET MDAY PICT "99"
164 | READ
165 | STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
166 | LOOP
167 | ELSE
168 | IF (SUBSTR(MOLDATE,3,2) = "02") . AND. . NOT.;
169 | (SUBSTR(MOLDATE,5,2) >= "01") . AND.;
170 | SUBSTR(MOLDATE,5,2) <= "28") THEN
171 | SET COLOR TO W/B, W/B
172 | @ 24,0 SAY SPACE(80)
173 | SET COLOR TO W+/R, W+/R
174 | @ 24,16 SAY "Day portion of date must be between 01 and 28"
175 | DO DELAY
176 | SET COLOR TO /W, /W
177 | @ 24,0 SAY MESSAGE
178 | STORE SUBSTR(MDATE,5,2) TO MDAY
179 | SET COLOR TO /BR, /BR
180 | @ 9,72 GET MDAY PICT "99"
181 | READ
182 | STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
183 | LOOP
184 | ELSE
185 | IF . NOT. (SUBSTR(MOLDATE,5,2) >= "01") . AND.;
186 | SUBSTR(MOLDATE,5,2) <= "31") THEN
187 | SET COLOR TO W/B, W/B
188 | @ 24,0 SAY SPACE(80)
189 | SET COLOR TO W+/R, W+/R
190 | @ 24,16 SAY "Day portion of date must be between 01 and 31"
191 | DO DELAY
192 | SET COLOR TO /W, /W
193 | @ 24,0 SAY MESSAGE
194 | STORE SUBSTR(MDATE,5,2) TO MDAY
195 | SET COLOR TO /BR, /BR
196 | @ 9,72 GET MDAY PICT "99"
197 | READ
198 | STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
APPENDIX B: MAINTENANCE MANUAL  Page 256

SERNOUPD.PRG Program Listing

```plaintext
201 LOOP
202 ELSE
203 EXIT
204 ENDIF
205 ENDIF
206 ENDIF
207 ENDDO WHILE .T.
208 * SEE IF THE USER'S DATE IS A VALID DATE FOR THE SITE SELECTED
209 * 
210 STORE MSITE + MOLDATE TO MKEY
211 GO TO
212 FIND &MKEY
213 IF EOF() = .T. THEN
214 NOFIND = NOFIND + 1
215 IF NOFIND = 3 THEN
216 SET COLOR TO W+/B, W+/B
217 @ 24,0 SAY SPACE(80)
218 ?? FLASH + "W,SERNOFND/
219 SET CONSOLE OFF
220 WAIT TO Ans
221 SET CONSOLE ON
222 IF Ans = "2" THEN
223 RELEASE ALL LIKE M*, ACCEPT, ANS, CHOICE,;
224 CURRENTNO, EOF, INTRO, NODATE,;
225 NOFIND, SYSDATE, TOF
226 CLOSE DATABASES
227 RETURN
228 ELSE
229 SET COLOR TO /W, /W
230 @ 24,0 SAY MESSAGE
231 STORE 0 TO NOFIND
232 STORE "000000" TO MOLDATE
233 LOOP
234 ENDIF Ans = "2"
235 ELSE
236 SET COLOR TO W/B, W/B
237 @ 24,0 SAY MESSAGE
238 STORE " EFFECTIVE DATE " + MOLDATE + " does not exist for site " + MSITE + ", try another " TO NOFDATE
239 SET COLOR TO W+/R, W+/R
240 @ 24,10 SAY NODATE
241 DO DELAY
242 SET COLOR TO /W, /W
243 @ 24,0 SAY MESSAGE
244 STORE "000000" TO MOLDATE
245 LOOP
246 ENDIF NOFIND = 3
247 ENDIF EOF() = .T.
248 ENDDO WHILE .NOT. (MOLDATE >= TODATE .AND. MOLDATE <= HILDATE)
```
APPENDIX B: MAINTENANCE MANUAL

Page 257

SERNOUPD.PRG Program Listing

251 *
252 STORE SPACE(10) + 'Enter a six digit feature number between ' + LOFNUM + ;
253 ' and ' + HIFNUM + SPACE(11) TO MESSAGE
254 SET COLOR TO /W, /W
255 @ 24,0 SAY MESSAGE
256 STORE '999999' TO MFEAT
257 STORE 0 TO NOFIND
258 *
259 DO WHILE .T.
260   DO WHILE .NOT. (MFEAT = LOFNUM .AND. MFEAT <= HIFNUM)
261     SET COLOR TO /BR, /BR
262     STORE '010201' TO MFEAT
263     @ 13,45 GET MFEAT PICT '999999'
264     READ
265     IF .NOT. (MFEAT = LOFNUM .AND. MFEAT <= HIFNUM) THEN
266       SET COLOR TO W/B, W/B
267       @ 24,0 SAY SPACE(80)
268       SET COLOR TO W+/R, W+/R
269       STORE 'Response must be between ' + LOFNUM + ;
270       ' and ' + HIFNUM + ' ' TO ERROR
271       @ 24,17 SAY ERROR
272       DO DELAY
273       SET COLOR TO /W, /W
274       @ 24,0 SAY MESSAGE
275       LOOP
276 ELSE
277     IF (MFEAT >= LOFNUM .AND. MFEAT = HIFNUM) THEN
278       USE DESCRIP INDEX DESCRIP
279       GO TOP
280     FIND MFEAT
281     IF LOF() = .T. THEN
282       NOFIND = NOFIND + 1
283     IF NOFIND = 3 THEN
284       SET COLOR TO W+/B, W+/B
285       @ 24,0 SAY SPACE(80)
286       ?? FLASH + "W, SERNOUPD/"
287       SET CONSOLE OFF
288       WAIT TO ANS
289       SET CONSOLE ON
290       IF ANS = "2" THEN
291         RELEASE ALL LIKE M*, ACCEPT, ANG, CON, CURR,
292         DF, DDF, INPUT, NODATE,
293         NOFIND, SYSDATE, TOP
294         CLOSE DATABASES
295         RETURN
296 ELSE
297     SET COLOR TO /W, /W
298     @ 24,0 SAY MESSAGE
299     STORE 0 TO NOFIND
300     STORE '999999' TO MFEAT

394
LOOP
ENDIF ANS = "2"
ELSE
SET COLOR TO W/B, W/B
305 # 24,0 SAY SPACE(80)
306 SET COLOR TO W+/R, W+/R
307 STORE "No record exists for feature number " + 308 MFEAT + ", try again" TO ERROR
309 # 24,12 SAY ERROR
310 DO DELAY
311 SET COLOR TO /W, /W
312 # 24,0 SAY MESSAGE
313 STORE '999999' TO MFEAT
314 LOOP
315 ENDIF NOFIND = 3
316 ENDIF EOF() = .T.
317 ENDIF (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
318 ENDIF NOT (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
319 ENDDO WHILE NOT (MFEAT >= LOFNUM .AND. MFEAT <= HIFNUM)
320*
321 STORE MOLDATE + MSITE + MFEAT TO MKEY
322 USE SERIALNO INDEX SERNOPRJ
323 GO TOP
324 FIND &MKEY
325 IF EOF() = .T. THEN
326 SET COLOR TO W/B, W/B
327 # 24,0 SAY SPACE(80)
328 SET COLOR TO W+/R, W+/R
329 STORE "Feature number " + MFEAT + " for site " + MSITE + 330 " on date " + MOLDATE + ;
331 " does not exist, try again" TO ERROR
332 # 24,0 SAY ERROR
333 DO DELAY
334 SET COLOR TO W+/R, W+/R
335 ?? FLASH + "W.SERIALNO/"
336 SET CONSOLE OFF
337 WAIT TO ANS
338 SET CONSOLE ON
339 IF ANS = "2" THEN
340 RELEASE ALL LIKE M*, ACCEPT, ASS, CHOICE, CURRENT, DEF,;
341 INPUT, INPUT, INPUT, INPUT, INPUT, INPUT, TOP
342 CLOSE DATABASES
343 RETURN
344 ELSE
345 SET COLOR TO W/B, W/B
346 # 24,10 SAY SPACE(60)
347 SET COLOR TO /W, /W
348 # 24,0 SAY MESSAGE
349 STORE '999999' TO MFEAT
350 LOOP
APPENDIX B: MAINTENANCE MANUAL

SERNOUPD.PRG Program Listing

351 | IF ANS = "2"
352 | ELSE
353 | EXIT
354 | ENDIF EOF() = .T.
355 | ENDDO WHILE .T.
356 | *
357 | STORE "At beginning of records for site number" +
358 | "MSITE + " TO TOF
359 | SET COLOR TO W/B, W/B
360 | @ 24,0 SAY SPACE(80)
361 | STORE SPACE(16) + 'Press "Page Down" key to terminate record update' +
362 | SPACE(16) TO MESSAGE
363 | STORE 1 TO INTRO
364 | DO WHILE .T.
365 | SET COLOR TO /W, /W
366 | @ 24,0 SAY MESSAGE
367 | *
368 | * USING THE SERIAL NUMBER UPDATE FORMAT FILE TO PRODUCE THE SCREEN
369 | * DISPLAY, IF NOT AT THE END OF FILE.
370 | *
371 | STORE SERIALNO TO MSERIAL
372 | STORE FEATURENO TO MFEAT
373 | *
374 | INFORM THE USER OF HOW TO TERMINATE THE UPDATE OF A RECORD
375 | *
376 | IF INTRO = 1 THEN
377 | STORE 0 TO INTRO
378 | ?? FLASH + "W.SERNOUPD/
379 | SET CONSOLE OFF
380 | WAIT TO ANS
381 | SET CONSOLE ON
382 | ENDF
383 | *
384 | SELECT 2
385 | USE DESCRIP INDEX DESCRIP
386 | FIND MFEAT
387 | STORE CLIN TO MCLIN
388 | STORE DESCRIP TO MDESCRIP
389 | SELECT 1
390 | SET COLOR TO R+/B, R+/B
391 | 6,45 SAY RECN() PICT "9999"
392 | SET COLOR TO /BR, /BR
393 | 9,20 SAY SITENO PICT "99"
394 | 9,68 SAY EFFDATE PICT "999999"
395 | 12,45 SAY CLIN PICT "9999"
396 | 13,45 SAY MFEAT PICT "999999"
397 | 14,45 SAY MDESCRIP PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!"
398 | 15,45 SAY TOTALS PICT "999"
399 | *
SERNOUNP.DRG Program Listing

*401 SET COLOR TO W+/BG, W+/BG
*402 @ 17,45 SAY QTY PICT "999"
*403 @ 17,52 SAY QTY PICT "999"
*404 SET COLOR TO /BR, /BR
*405 @ 19,45 GET MSERIAL PICT "!!!!!!!"
*406 READ
*407 SET COLOR TO W/B, W/B
*408 @ 24,0 SAY SPACE(80)
*409 IF .NOT. (SERIALNO = MSERIAL) THEN
*410 * ASK THE USER IF HE/SHE DESIRES TO ACCEPT THE CHANGES
*411 * SET COLOR TO W+/B, W+/B
*412 @ 21,12 SAY "Do you want to accept the change? (Yes or No):"
*413 SET COLOR TO R+/B, R+/B
*414 @ 21,48 SAY "Y"
*415 @ 21,55 SAY "N"
*416 STORE "N" TO ACCEPT
*417 @ 21,61 GET ACCEPT PICT ":"
*418 READ
*419 ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
*420 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
*421 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
*422 SET COLOR TO W+/R, W+/R
*423 @ 24,24 SAY "Response must be either N or Y"
*424 DO DELAY
*425 STORE "N" TO ACCEPT
*426 ENDIF ACCEPT
*427 SET COLOR TO R+/B, R+/B
*428 @ 21,61 GET ACCEPT PICT ":"
*429 READ
*430 [I00]
*431 SET COLOR TO W/B, W/B
*432 @ 21,10 SAY SPACE(55)
*433 STORE THE CHANGED EDIT FIELD FROM THE WORK AREA INTO THE
* DATABASE VARIABLE
*434 IF ACCEPT = "Y" THEN
*435 REPLACE SERIALNO WITH MSERIAL
*436 ELSE
*437 SET COLOR TO /BR, /BR
*438 @ 19,45 SAY SERIALNO PICT "!!!!!!!"
*439 ENDIF ACCEPT = "Y"
*440 ENDIF .NOT. (SERIALNO = MSERIAL)
*441 SET COLOR TO R+/B, R+/B

397
451 | STORE "N" TO CHOICE
452 | @ 22,68 GET CHOICE PICT "]"
453 | READ
454 | *
455 | * ENSURE THAT THE USER'S RESPONSE IS EITHER "N", "P" OR "X"
456 | *
457 | DO WHILE .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X")
458 | IF .NOT. (CHOICE = "N" .OR. CHOICE = "P" .OR. CHOICE = "X") THEN
459 | SET COLOR TO W+/R, W+/R
460 | @ 24,23 SAY "Response must be either N, P or X"
461 | DO DELAY
462 | STORE "N" TO CHOICE
463 | ENDIF
464 | SET COLOR TO R+/B, R+/B
465 | @ 22,68 GET CHOICE PICT "!"
466 | READ
467 | ENDDO
468 | *
469 | * SKIP TO THE NEXT RECORD TO BE REVIEWED
470 | *
471 | IF CHOICE = "N" THEN
472 | IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
473 | SKIP
474 | IF EOF() = .T. THEN
475 | SKIP - 1
476 | SET COLOR TO W+/R, W+/R
477 | @ 24,21 SAY EOF
478 | DO DELAY
479 | ELSE
480 | IF .NOT. (SITENO = MSITE) THEN
481 | SKIP - 1
482 | SET COLOR TO W+/R, W+/R
483 | @ 24,21 SAY EOF
484 | DO DELAY
485 | ENDIF
486 | ENDIF EOF() = .T.
487 | ENDIF (MSITE >= LOSITE .AND. MSITE <= HISITE)
488 | ENDIF CHOICE = "N"
489 | *
490 | * SKIP TO THE PREVIOUS RECORD
491 | *
492 | IF CHOICE = "P" THEN
493 | STORE RECORD() TO CURRENTNO
494 | IF (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
495 | SKIP - 1
496 | IF EOF() = .T. THEN
497 | GO TO CURRENTNO
498 | SET COLOR TO W+/R, W+/R
499 | @ 24,16 SAY "W"
500 | DO DELAY
APPENDIX B: MAINTENANCE MANUAL

SERNOUPD.PRG Program Listing

ELSE
  IF .NOT. (SITENO = MSITE) THEN
    SKIP
    SET COLOR TO W+/ R, W+/ R
    @ 24,16 SAY TOF
    DO DELAY
  ENDIF
  ENDIF BOF() = .T.
  ENDIF (MSITE >= LOSITE .AND. MSITE <= HISITE)
  ENDF Choice = "P"
  * USER HAS DECIDED TO EXIT THE REVIEW
  * IF Choice = "X"
  * EXIT
  ENDF
  ENDDO WHILE .T.
  *
  * RETURN TO CALLING PROGRAM.
  *
  RELEASE ALL LIKE M*, ACCEPT, ANS, CHOICE, CURRENTNO, BOF, INTRO,
  NODATE, NOFIND, SYSDATE, TOF
  CLOSE DATABASES
  RETURN

*****************************************************************************
* PROCEDURE SITERPTS.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. BUCKLEY, SC, USN
* LCDR ROBERT F. BRADO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : PROVIDE THE USER A SELECTION OF SITE LEVEL REPORTS.

* INPUT FILES : NONE.

* OUTPUT FILES : NONE.

* CALLED BY : REPORCMD.PRG

* MODULES CALLED : EQPSTRPT.PRG, MNLSTRPT.PRG, SNOSTRPT.PRG

* LOCAL VARIABLES: SELEKT

* DATE LAST TIME MODIFIED =========> 18 DECEMBER 1985 <========

* DISPLAY THE PROCESS MENU TO THE USER AND WAIT FOR THE SELECTION.

STORE "1" TO SITERPTS
DO WHILE SITERPTS < "4"
SET COLOR TO W/B, W/B, B
CLEAR
?? FLASH + "W.SITERPTS/"
SET CONSOLE OFF
WAIT TO SITERPTS
SET CONSOLE ON

* PROCESS ROUTINE BASED ON THE USER'S SELECTION.

DO CASE

* CALL THE EQUIPMENT SITE LEVEL REPORT.
CASE SITERPTS = "1"
DO EQPSTRPT

* CALL THE MANUAL SITE LEVEL REPORT.
CASE SITERPTS = "2"
DO MNLSTRPT

* CALL THE SERIAL NUMBER SITE LEVEL REPORT.
CASE SITERPTS = "3"
DO SNOSTRPT

* RETURN TO THE SPICE REPORTING LEVEL MENU.
CASE SITERPTS = "4"
APPENDIX B: MAINTENANCE MANUAL

SITERPTS.PRG Program Listing

51 *
52 ENDCASE
53 *
54 ENDOO (WHILE SITERPTS = "4")
55 *
56 * RETURN TO THE CALLING PROGRAM
57 *
58 RETURN
59******************************************************************************
PROCEDURE SNOIRPT.PRG

AUTHORS

LCDR EDWARD J. CASE, SC, USN

LCDR WINSTON H. BUCKLEY, SC, USN

LCDR ROBERT F. BRADO, USN

LCDR ROBERT L. BEARD III, SC, USN

PURPOSE

PROVIDE THE USER A SPLICE SERIAL NUMBER

EFFECTIVE DELIVERY ORDER LEVEL REPORT.

INPUT FILES

: SERIALNO.DBF, SERNDAT.NDX, DESCRIP.DBF,

DESCRIP.NDX, EQUIP.DBF, EQUIPSIT.NDX

CALLED BY

: DATERPTS.PRG

MODULES CALLED :

NONE.

GLOBAL VARIABLE: HIDATE, HISITE, LDATE, LOSITE

LOCAL VARIABLES: ACCEPT, CHOICE, CURLNT, ERROR, LINECT, MDAY, MKEY,

MMONTH, MNEWDATE, MDATE, MSITE, MYEAR, PAGENO,

SYSDATE, TODAY, TODE

DATE LAST TIME MODIFIED = 27 DECEMBER 1985

CASE SELECTION = 3 SERIAL NUMBER EFFECTIVE DELIVERY ORDER LEVEL REPORT

CALL THE SERIAL NUMBER DATABASE INDEXED ON SITE NUMBER. DISPLAY

THE EFFECTIVE DELIVERY ORDER DATES FOR THE USER TO SELECT FROM.

CALL SERIAL NUMBER DATABASE INDEXED ON EFFECTIVE DELIVERY ORDER DATE

AND SITE NUMBER. COPY TO TEMPONE, INDEXED ON FEATURE NUMBER. RELATE

TO THE DESCRIPTION FILE AND PRODUCE REPORT.

SET ESCAPE OFF

SET TALK OFF

SET COLOR TO W+/B, W+/R, B

CLEAR

USE SERIALNO

GOTO TOP

IF LINECT = 0, THEN

SET COLOR TO W+/R, W+/R

11,22, SAY " The SERIAL NUMBER Database is EMPTY! "

DO DELAY

RETURN

ENDIF

12 FLASH + "S.REPORTS.SCR"/

24,0 SAY SPACE(80)

SET COLOR TO R+/ , R+/R

2,26, SAY " SITE SERIAL NUMBER REPORT "

SET COLOR TO W+/BR, W+/BR
SNODRPT.PRG Program Listing

51 @ 13,15 SAY "Enter site number for which the report is desired:"
52 *
53 * ENSURE THAT TEMPORARY DATABASE AND INDEX DO NOT EXIST,
54 * IF SO ERASE THEN
55 *
56 SET CONSOLE OFF
57 ERASE TEMPONE.DBF
58 ERASE TEMPONE.NDX
59 SET CONSOLE ON
60 USE SERIALNO INDEX SERNOIT
61 *
62 DO WHILE .T.
63 SET COLOR TO /BR, /BR
64 STORE LOSITE TO MSITE
65 @ 13,66 GET MSITE PICT '99'
66 READ
67 IF NOT (MSITE >= LOSITE AND MSITE <= HISITE) THEN
68 SET COLOR TO W+/R, W+/R
69 SAY 'Response must be between ' + LOSITE +';
' + HISITE + ' TO ERROR
70 DO 24,22 SAY ERROR
71 DO DELAY
72 LOOP
73 ELSE
74 GO TOP
75 FIND &MSITE
76 IF DF1() = .T. THEN
77 STORE "No serial numbers exist for site " + MSITE +';
', try another site " TO MESSAGE
78 SET COLOR TO W+/R, W+/R
79 DO 24,13 SAY MESSAGE
80 DO DELAY
81 LOOP
82 ELSE
83 EXIT
84 ENDIF .N(Y. (MSIITE >= LOSITE AND MSITE <= HISITE)
85 ENDDO WHILE .T.
86 *
87 SET COLOR TO W+/BR, W+/BR
88 @ 13,15 SAY SPACE(60)
89 *
90 SET COLOR TO W+/B, W+/B
91 @ 05,09 SAY "The following Delivery Order Effective Dates exist for Site"
92 @ 05,69 SAY MSITE
93 SET COLOR TO /BR, /BR
94 @ 13,05 SAY SPACE(70)
95 STORE 1 TO COUNT
96 STORE 1,00 TO COUNT
97 STORE "000000" TO MOLDATE
APPENDIX B: MAINTENANCE MANUAL

Page 3

SNODTRPT.PRG Program Listing

101  *  
102  DO WHILE SITENO = MSITE 
103      IF (COLCNT - (COLCNT * (COLCNT/3)) = 0.00) THEN 
104         LINECT+6,57 SAY EFFDATE 
105      ELSE 
106          IF (COLCNT - (COLCNT * (COLCNT/2)) = 0.00) THEN 
107             LINECT+6,38 SAY EFFDATE 
108          ELSE 
109             ENDF (COLCNT - (COLCNT * (COLCNT/3)) = 0.00) 
110          ENDF (COLCNT - (COLCNT * (COLCNT/2)) = 0.00) 
111          IF (COLCNT - (COLCNT * (COLCNT/3)) = 0.00) THEN 
112             LINECT = 1 + LINECT 
113             COLCNT = 1.00 
114          ELSE 
115             COLCNT = COLCNT + 1.00 
116          ENDF (COLCNT - (COLCNT * (COLCNT/3)) = 0.00) 
117      ENDF (COLCNT - (COLCNT * (COLCNT/2)) = 0.00) 
118      ENDF (EFFDATE = MOLDATE) .AND. .NOT. EOF() 
119      *  
120      IF EOF() THEN 
121         EXIT 
122      ELSE 
123         L)  
124      ENDF EOF() = .T. 
125     ENDDO WHILE SITENO = MSITE 
126  *  
127     STORE DTOD (DATE()) TO SYSDATE 
128     STORE SUBSTR (SYSDATE,7,2) + SUBSTR (SYSDATE,1,2) + 
129       SUBSTR (SYSDATE,4,2) TO MDATE 
130     STORE SPACE (17) + 'Input Effective Date (Range ' + LODATE + 
131       ' to ' + HIDATE + ') ' + SPACE (17) TO MESSAGE 
132     SET COLOR TO /W, /W 
133     @ 24,0 SAY MESSAGE 
134     SET COLOR TO W+/B, W+/B 
135     @ 3,29 SAY "EFFECTIVE DATE: " 
136     *  
137     USE SERIALNO INDEX SERNODAT 
138     STORE "000000" TO MOLDATE 
139  *  
140     DO WHILE NOT. (MOLDATE = LODEATE .AND. MOLDATE <= HIDATE) 
141     STORE MDATE TO MOLDATE 
142     SET COLOR TO R+/B, R+/B 
143     @ 3,45 GET MOLDATE PICT "999999" 
144     READ 
145     L) WHILE .T. 
146     IF NOT. (SUBSTR (MOLDATE,1,2) > "8") .AND. ;
SUBSTR(MOLDATE,1,2) <= "99") THEN
   SET COLOR TO W/B, W/B
   $ 24.0 SAY SPACE(80)
   SET COLOR TO W+/R, W+/R
   $ 24,16 SAY " Year portion of date must be between 84 and 99 "
   DO DELAY
   SET COLOR TO /W, /W
   $ 24.0 SAY MESSAGE
   STORE SUBSTR(MDATE,1,2) TO MYEAR
   SET COLOR TO R+/B, R+/B
   $ 3,45 GET MYEAR PICT "99"
   READ
   STORE MYEAR + SUBSTR(MOLDATE,3,4) TO MOLDATE
ELSE
   EXIT
ENDIF
ENDDO WHILE .T.

DO WHILE .T.
   IF .NOT. (SUBSTR(MOLDATE,3,2) >= "01" .AND.;
   SUBSTR(MOLDATE,3,2) <= "12") THEN
   SET COLOR TO W/B, W/B
   $ 24.0 SAY SPACE(80)
   SET COLOR TO W+/R, W+/R
   $ 24,16 SAY " Month portion of date must be between 01 and 12 "
   DO DELAY
   SET COLOR TO /W, /W
   $ 24.0 SAY MESSAGE
   STORE SUBSTR(MDATE,3,2) TO MMTH
   SET COLOR TO R+/B, R+/B
   $ 3,47 GET MMTH PICT "99"
   READ
   STORE SUBSTR(MOLDATE,1,2) + MMTH +;
   SUBSTR(MOLDATE,5,2) TO MOLDATE
ELSE
   EXIT
ENDIF
ENDDO WHILE .T.

DO WHILE .T.
   IF (SUBSTR(MOLDATE,3,2) = "04" .OR. SUBSTR(MOLDATE,3,2) = "06" .OR.;
   SUBSTR(MOLDATE,5,2) = "01" .OR. SUBSTR(MOLDATE,5,2) = "03") .AND. .NOT.;
   SUBSTR(MOLDATE,5,2) = "02") THEN
   SET COLOR TO W/B, W/B
   $ 24.0 SAY SPACE(80)
   SET COLOR TO W+/R, W+/R
   $ 24,16 SAY " Day portion of date must be between 01 and 30 "
   DO DELAY
   SET COLOR TO /W, /W
   $ 24.0 SAY MESSAGE

405
APPENDIX B: MAINTENANCE MANUAL

SNODIRPT.PRG Program Listing

201 STORE SUBSTR(MDATE,5,2) TO MDAY
202 SET COLOR TO R+/B, R+B
203 @ 3,49 GET MDAY PICT "99"
204 READ
205 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
206 LOOP
207 ELSE
208 * IF (SUBSTR(MOLDATE,3,2) = "02" .AND. .NOT.;
210 (SUBSTR(MOLDATE,5,2) >= "01" .AND.;
211 SUBSTR(MOLDATE,5,2) <= "28") THEN
212 SET COLOR TO W/B, W/B
213 @ 24,0 SAY SPACE(80)
214 SET COLOR TO W+/R, W+/R
215 @ 24,16 SAY " Day portion of date must be between 01 and 28 ">
216 DO DELAY
217 SET COLOR TO /W, /W
218 @ 24,0 SAY MESSAGE
219 STORE SUBSTR(MDATE,5,2) TO MDAY
220 SET COLOR TO R+/B, R+B
221 @ 3,49 GET MDAY PICT "99"
222 READ
223 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
224 LOOP
225 ELSE
226 * IF .NOT. (SUBSTR(MOLDATE,3,2) = "01" .AND.;
228 (SUBSTR(MOLDATE,5,2) <= "31") THEN
229 SET COLOR TO W/B, W/B
230 @ 24,0 SAY SPACE(80)
231 SET COLOR TO W+/R, W+/R
232 @ 24,16 SAY " Day portion of date must be between 01 and 31 ">
233 DO DELAY
234 SET COLOR TO /W, /W
235 @ 24,0 SAY MESSAGE
236 STORE SUBSTR(MDATE,5,2) TO MDAY
237 SET COLOR TO R+/B, R+B
238 @ 3,49 GET MDAY PICT "99"
239 READ
240 STORE SUBSTR(MOLDATE,1,4) + MDAY TO MOLDATE
241 LOOP
242 ELSE
243 EXIT
244 ENDIF
245 ENDIF
246 ENDIF
247 ENDDO WHILE .T.
248 *
249 DO TOP
250 STORE MSITE + MOLDATE TO MKEY
FIND &KEY

IF EOF() = .T. THEN
  SET COLOR TO W/B, W/B
  @ 24,0 SAY SPACE(80)
  STORE " EFFECTIVE DATE " + MOLDATE + " does not exist for site " + MSITE + ", try another " TO NODATE
  SET COLOR TO W/R, W/R
  @ 24,10 SAY NODATE
  DO DELAY
  SET COLOR TO /W, /W
  @ 24,0 SAY MESSAGE
  STORE "000000" TO MOLDATE
  LOOP
ELSE
  EXIT
ENDIF EOF() = .T.
ENDDO

SET COLOR TO /BR, /BR
@ 07,2 SAY SPACE(76)
@ 08,2 SAY SPACE(76)
@ 09,2 SAY SPACE(76)
@ 10,2 SAY SPACE(76)
@ 11,2 SAY SPACE(76)
@ 12,2 SAY SPACE(76)
@ 13,2 SAY SPACE(76)
@ 14,2 SAY SPACE(76)
@ 15,2 SAY SPACE(76)
@ 16,2 SAY SPACE(76)
@ 17,2 SAY SPACE(76)
@ 18,2 SAY SPACE(76)
@ 19,2 SAY SPACE(76)
@ 20,2 SAY SPACE(76)
@ 21,2 SAY SPACE(76)

SET COLOR TO R+, R+
@ 13,18 SAY " CREATING TEMPORARY DATABASE AND INDEX FILE "
SELECT 1
USE TEMPONE
INDEX ON FEATURENO TO TEMPONE
SELECT 2
USE DESCRIP INDEX DESCRIP
APPENDIX B: MAINTENANCE MANUAL

Page 7
SNOODTRPT.PRG Program Listing

301 SELECT TEMPONE
302 SET RELATION TO FEATURENO INTO DESCRIP
303 GO TOP
304 *
305 * CREATE THE SPLICE EQUIPMENT PROJECT REPORT AND CHECK IF THE REPORT
306 * IS TO BE PRINTED OR DISPLAYED ON THE SCREEN.
307 *
308 SET COLOR TO W+/BR, W+/BR
309 @ 13,15 SAY SPACE(60)
310 @ 13,16 SAY " Do you want a printed report? (Yes or No): "
311 SET COLOR TO /BR, /BR
312 @ 13,49 SAY "Y"
313 @ 13,56 SAY "N"
314 STORE "N" TO ACCEPT
315 @ 13,62 GET ACCEPT PICT ":!"
316 READ
317 *
318 * ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
319 *
320 DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
321 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
322 SET COLOR TO W+/R, W+/R
323 @ 24,24 SAY " Response must be either N or Y "
324 DO DELAY
325 STORE "N" TO ACCEPT
326 ENDIF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
327 SET COLOR TO /BR, /BR
328 @ 13,62 GET ACCEPT PICT ":!"
329 READ
330 ENDDO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
331 *
332 SET COLOR TO /B, /B
333 @ 13,15 SAY SPACE(55)
334 *
335 IF ACCEPT = "Y" THEN
336 ?? FLASH + "W.PRINTER/"
337 SET CONSOLE OFF
338 WAIT TO CHOICE
339 SET CONSOLE ON
340 SET COLOR TO W/B, W/B
341 @ 22,10 SAY SPACE(60)
342 STORE DMYHOUR TO TODAY
343 STORE SUBSTR(DMYHOUR,1,2) + " " + SUBSTR(DMYDATE()) + " " + DMYHOUR;
344 SUBSTR(DMYDATE(),2,7) TO DMY
345 SET BE " " TO PAGE2
346 SPACE 61 TO DEVICE
347 SET COLOR TO R+/B, R+/B
348 SET DEVICE TO PRINT
349 *
350 DO WHILE .NOT. DAT()
APPENDIX B: MAINTENANCE MANUAL  Page 272

Page 8  SNODTRPT.PRG Program Listing

DO WHILE (LINECT <= 60 .AND. .NOT. EOF())
   @ LINECT,3 SAY SITENO PICT "99"
   @ LINECT,7 SAY B->CLIN PICT "9999"
   @ LINECT,15 SAY FEATURENO PICT "999999"
   @ LINECT,24 SAY B->DESCRIPTION PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!"'
   @ LINECT,52 SAY DESCRIPT PICO "999999"
   @ LINECT,60 SAY TOTAL QTY PICT "999"
   @ LINECT,65 SAY QTY PICT "999"
   @ LINECT,70 SAY SERIALNO PICT "999"
   @ LINECT,75 SAY SERIALNO PICO "999999"
   @ LINECT = LINECT + 1
   SKIP
ENDDO WHILE (LINECT <= 60 .AND. .NOT. EOF())

IF EOF() = .T. THEN
   IF PAGE(NO > 1 THEN
      @ 62,37 SAY "Page " + STR(PAGE(No),2,0)
   ENDF PAGE(No) > 1
   EJECT
   SET DEVICE TO SCREEN
   @ 13,25 SAY "FINISHED PRINTING THE REPORT"
   DO DELAY
   EXIT
   ELSE
   SET DEVICE TO SCREEN
   @ 13,27 SAY "FINISHED PRINTING THE REPORT"
   SET DEVICE TO PRINT
ENIF EOF() = .T.

IF (LINECT > 60 .AND. PAGE(No) > 1) THEN
   @ 62,37 SAY "Page " + STR(PAGE(No),2,0)
ENIF (LINECT > 60 .AND. PAGE(No) > 1)
   @ 2,26 SAY "SITE SERIAL NUMBER REPORT"
   @ 3,29 SAY "EFFECTIVE DATE:"
   @ 3,45 SAY "FUTURE DATE"
   @ 4,60 SAY "TOTAL QTY SERIAL NUMBER"
   @ 6,52 SAY "EFFECT TOT QTY SERIAL"
   @ 7,2 SAY "SITE CLIN FEATURES# DESCRIPTION DATE"
   @ 7,60 SAY "QTY QTY NUMBER"
   @ 8,2 SAY "=============================================
   @ 8,51 SAY "=============================================
   PAGE(No) = PAGE(No) + 1
STORE 10 TO LINECT
ENDWHILE NOT. EOF()
ELSE
   SET COLOR TO 0/0, 0/0
   @ 4,52 SAY "EFFECT TOT QTY SERIAL"
   @ 5,2 SAY "SITE CLIN FEATURES# DESCRIPTION DATE"
   @ 5,60 SAY "QTY QTY NUMBER"
   SET COLOR TO /BP, /BP
APPENDIX B: MAINTENANCE MANUAL

Page 9

SNODTRPT.PRG Program Listing

401 | STORE 0 TO LINECT
402 | DO WHILE .NOT. EOF()
404 | \* DO WHILE LINECT < 15
405 | \* LINECT+7,3 SAY SITENO PICT "99"
406 | \* LINECT+7,7 SAY B->CLIN PICT "9999"
407 | \* LINECT+7,15 SAY FEATURENO PICT "999999"
408 | \* LINECT+7,24 SAY B->DESCRPT PICT "!!!!!!!!!!!!!!!!!!!!!!!!!!""
409 | \* LINECT+7,52 SAY EFFDATE PICT "999999"
410 | \* LINECT+7,60 SAY TOTQTY PICT "999"
411 | \* LINECT+7,65 SAY QTY PICT "999"
412 | \* LINECT+7,70 SAY SERIALNO PICT "!!!!!!!"
413 | LINECT = LINECT + 1
414 | SKIP
415 | IF EOF() = .T. THEN
416 | \* SET COLOR TO W+/R, W+/R
417 | \* 24,18 SAY " End of File reached, Press any key to EXIT "
418 | \* SET CONSOLE OFF
419 | \* WAIT TO ACCEPT
420 | \* SET CONSOLE ON
421 | \* EXIT
422 | \* ENDF EOF() = .T.
423 | ENDDO WHILE LINECT < 15
424 | \* IF EOF() = .T. THEN
425 | \* EXIT
426 | \* ENDF EOF() = .T.
427 | SET COLOR TO R+/B, R+/B
428 | STORE "C" TO CHOICE
429 | \* 22,57 GET CHOICE PICT ":!"
430 | READ
431 | \* ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
432 | \* DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
433 | \* IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
434 | \* SET COLOR TO W+/R, W+/R
435 | \* 24,24 SAY " Response must be either C or X "
436 | \* DO DELAY
437 | \* STORE "C" TO CHOICE
438 | \* ENDF .NOT. (CHOICE = "C" .OR. CHOICE = "X")
439 | \* SET COLOR TO R+/B, R+/B
440 | \* 22,57 GET CHOICE PICT ":!"
441 | READ
442 | \* ENDDO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
443 | \* DETERMINE IF THE USER WANTS TO QUIT OR CONTINUE
444 | \* IF CHOICE = "C"
445 | \* SET COLOR TO /BR, /BR
446 | |
APPENDIX B: MAINTENANCE MANUAL

Page 10  SNOOTRPT.PRG Program Listing

451 @ 07,2 SAY SPACE(76)
452 @ 08,2 SAY SPACE(76)
453 @ 09,2 SAY SPACE(76)
454 @ 10,2 SAY SPACE(76)
455 @ 11,2 SAY SPACE(76)
456 @ 12,2 SAY SPACE(76)
457 @ 13,2 SAY SPACE(76)
458 @ 14,2 SAY SPACE(76)
459 @ 15,2 SAY SPACE(76)
460 @ 16,2 SAY SPACE(76)
461 @ 17,2 SAY SPACE(76)
462 @ 18,2 SAY SPACE(76)
463 @ 19,2 SAY SPACE(76)
464 @ 20,2 SAY SPACE(76)
465 @ 21,2 SAY SPACE(76)
466 STORE 0 TO LINECT
467 ELSE
468 EXIT
469 ENDIF CHOICE = "c"
470 *
471 ENDDO WHILE .NOT. EOF()
472 *
473 ENDIF ACCEPT = "y"
474 *
475 * ERASE ALL TEMPORARY FILES CREATED DURING REPORT GENERATION
476 *
477 CLOSE DATABASES
478 SET CONSOLE OFF
479 ERASE TEMPONE.DBF
480 ERASE TEMPONE.NDX
481 SET CONSOLE ON
482 SET PRINT OFF
483 *
484 * RETURN TO CALLING PROGRAM
485 *
486 RELEASE ALL LIKE M*, ACCEPT, CHOICE, COLCNT, LINECT, PAGENO,;
487 SYSDATE, TODAY, TODATE
488 RETURN
489

******************************************************************
**APPENDIX B: MAINTENANCE MANUAL**

**SNORJRPTR.PRG Program Listing**

1. *PROCEDURE SNORJRPTR.PRG*
2. *
3. *AUTHORS:* LCDR EDWARD J. CASE, SC, USN
4. LCDR WINSTON H. BUCKLEY, SC, USN
5. LCDR ROBERT F. BRADY, USN
6. LCDR ROBERT L. BEARD III, SC, USN
7. *
8. *PURPOSE:* PROVIDE THE USER A SPLICE SERIAL NUMBER
9. PROJECT LEVEL REPORT.
10. *
11. *INPUT FILES:* SERIALNO.DBF, SERNOPRJ.NDX, DESCRIP.DBF, DESCRIP.NDX
12. *
13. *OUTPUT FILES:* NONE.
14. *
15. *CALLED BY:* PROJRPTS.PRG
16. *
17. *MODULES CALLED:* DELAY.PRG
18. *
19. *LOCAL VARIABLES:* ACCEPT, CHOICE, LINESCT, PAGENO, TODAY, TOWDATE
20. *
21. *DATE LAST TIME MODIFIED:* 27 DECEMBER 1985
22. *
23. *CASE SELECTION = 2 SERIAL NUMBER PROJECT LEVEL REPORT*
24. *
25. *CALL SERIAL NUMBER DATABASE INDEXED ON EFFECTIVE DATE, SITE NUMBER, *
26. *AND FEATURE NUMBER. RELATE TO DESCRIP FILE ON FEATURENO.*
27. *
28. SET ESCAPE OFF
29. SET TALK OFF
30. SET COLOR TO W+/B, W+/B, B
31. CLEAR
32. USE SERIALNO
33. GO TOP
34. IF EOF() = .T. THEN
35. SET COLOR TO W+R, W+R
36. d 13,22 SAY "The SERIAL NUMBER Database is EMPTY!"
37. DO DELAY
38. RETURN
39. ENDIF
40. ?? FLASH "PROJRPTS.COM"
41. d 24,0 SAY SPACE(80)
42. SET CODP TO R*/ , R*/
43. d 2,12 SAY "EQUIPMENT SERIAL NUMBER PROJECT LEVEL REPORT"
44. SAY ''
45. USE SERIALNO INDEX SERNOPRJ.NDX
46. SAY ''
47. USE FEATURE INDEX DESCRIP
48. SAY ''
49. SET PAGE 1 P FEATURE 10 DESCRIP
CREATE THE SPLICE SERIAL NUMBER PROJECT REPORT AND CHECK IF THE REPORT
IS TO BE PRINTED OR DISPLAYED ON THE SCREEN.

SET COLOR TO W+/BR, W+/BR
@ 13,16 SAY " Do you want a printed report? (Yes or No): "
SET COLOR TO /BR, /BR
@ 13,49 SAY "Y"
@ 13,56 SAY "N"
STORE "N" TO ACCEPT
@ 13,62 GET ACCEPT PICT "!"
READ

ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"

DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
  IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
    SET COLOR TO W+/R, W+/R
    @ 24,24 SAY " Response must be either N or Y ">
    DO DELAY
    STORE "N" TO ACCEPT
  ENDIF
SET COLOR TO /BR, /BR
@ 13,62 GET ACCEPT PICT "!"
READ

IF ACCEPT = "Y" THEN
  ?? FLASH + "W.PRINTER/
  SET CONSOLE OFF
  WAIT TO CHOICE
  SET CONSOLE ON
  SET COLOR TO W/B, W/B
  @ 22,10 SAY SPACE(65)
  STORE 0 TO PAGENO
  STORE 61 TO LINECT
  STORE DTODATE() TO TODAY
  STORE SUBSTR(TODAY,4,2) + " " + COUNTH(DATE()) + "19" +;
  SUBSTR(TODAY,7,2) TO 'TODATE
  SET COLOR TO R+/ , R+/ R
  SET DEVICE TO PRINT

  DO WHILE .NOT. EOF()
    DO WHILE (LINECT <= 60 .AND. .NOT. EOF())
      @ LINECT, 3 SAY " ITI"
      @ LINECT, 7 SAY DESCRIPT->CLIN
      @ LINECT,15 SAY FEATUREN
APPENDIX B: MAINTENANCE MANUAL

Page 277

SNOPJRPT.PRG Program Listing

101 @ LINCT, 24 SAY DESCRIP:->DESCRIPT
102 @ LINCT, 52 SAY EFFDATE
103 @ LINCT, 60 SAY TOTA DATE
104 @ LINCT, 65 SAY QTY
105 @ LINCT, 70 SAY SITE CLN NO
106 LINCT = LINCT + 1
107 SKIP
108 ENDDO
109 * IF EOF() = .T. THEN
110 IF PAGENO > 1 THEN
111 @ 62, 37 SAY "Page " + STR(PAGENO, 2, 0)
112 ENDIF
113 EJECT
114 SET DEVICE TO SCREEN
115 @ 13, 25 SAY "FINISHED PRINTING THE REPORT"
116 DO DELAY
117 EXIT
118 ELSE
119 SET DEVICE TO SCREEN
120 @ 13, 27 SAY "Printing Page Number " + STR(PAGENO + 1, 2, 0) + ""
121 ENDIF
122 * IF (LINCT > 60) AND (PAGENO > 1) THEN
123 @ 62, 37 SAY "Page " + STR(PAGENO, 2, 0)
124 ENDIF
125 @ 2, 18 SAY "EQUIPMENT SERIAL NUMBER PROJECT LEVEL REPORT"
126 @ 4, 62 SAY TODATE
127 @ 6, 52 SAY "EFFECT TOT COMPT SERIAL"
128 @ 7, 2 SAY "SITE CLN FEATURE# DESCRIPTION DATE"
129 @ 7, 60 SAY "QTY QTY NUMBER"
130 @ 8, 2 SAY "=================================================================="
131 @ 8, 51 SAY "=================================================================="
132 PAGENO = PAGENO + 1
133 STORE 10 TO LINCT
134 ENDDO WHILE NOT. EOF()
135 * ELSE
136 SET COLOR TO GR+B, GR+B
137 @ 4, 52 SAY "EFFECT TOT COMPT SERIAL"
138 @ 5, 2 SAY "SITE CLN FEATURE# DESCRIPTION DATE"
139 @ 5, 60 SAY "QTY QTY NUMBER"
140 SET COLOR TO /BR, /BR
141 STORE 0 TO LINCT
142 * DO WHILE NOT. EOF()
143 DO WHILE LINCT < 15
144 @ LINCT + 7, 3 SAY SITE CLN NO
APPENDIX B: MAINTENANCE MANUAL

Page 4

SNOPJRPT.PRG Program Listing

151 @ LINECT+7,7 SAY DESCRIP->CLIN
152 @ LINECT+7,15 SAY FEATURENO
153 @ LINECT+7,24 SAY DESCRIP->DESCRIPT
154 @ LINECT+7,52 SAY EFFDATE
155 @ LINECT+7,60 SAY TOTQTY
156 @ LINECT+7,65 SAY QTY
157 @ LINECT+7,70 SAY SERIALNO
158 LINECT = LINECT + 1
159 SKIP
160 IF EOF() = .T. THEN
161 SET COLOR TO W+/R, W+/R
162 @ 24,18 SAY " End of File reached, Press any key to EXIT "
163 SET CONSOLE OFF
164 WAIT TO ACCEPT
165 SET CONSOLE ON
166 EXIT
167 ENDIF
168 ENDDO WHILE LINECT < 15
169 * 
170 IF EOF() = .T. THEN
171 EXIT
172 ENDIF
173 SET COLOR TO R+/B, R+/B
174 STORE "C" TO CHOICE
175 @ 22,57 GET CHOICE PICT ":"
176 READ
177 *
178 ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
179 *
180 DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
181 IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
182 SET COLOR TO W+/R, W+/R
183 @ 24,24 SAY " Response must be either C or X "
184 DO DELAY
185 STORE "C" TO CHOICE
186 ENDIF
187 SET COLOR TO R+/B, R+/B
188 @ 22,57 GET CHOICE PICT ":"
189 READ
190 ENDDO
191 *
192 DETERMINE IF THE USER WANTS TO QUIT OR CONTINUE
193 *
194 IF CHOICE = "C"
195 SET COLOR TO /BR, /BR
196 @ 07,2 SAY SPACE(76)
197 @ 08,2 SAY SPACE(76)
198 @ 09,2 SAY SPACE(76)
199 @ 10,2 SAY SPACE(76)
200 @ 11,2 SAY SPACE(76)
APPENDIX B: MAINTENANCE MANUAL

Page 279

SNOPJRPT.PRG Program Listing

201 @ 12,2 SAY SPACE(76)
202 @ 13,2 SAY SPACE(76)
203 @ 14,2 SAY SPACE(76)
204 @ 15,2 SAY SPACE(76)
205 @ 16,2 SAY SPACE(76)
206 @ 17,2 SAY SPACE(76)
207 @ 18,2 SAY SPACE(76)
208 @ 19,2 SAY SPACE(76)
209 @ 20,2 SAY SPACE(76)
210 @ 21,2 SAY SPACE(76)
211 STORE 0 TO LINECT
212 ELSE
213 ENDIF
214 *
215 *
216 ENDO WHILE .NOT. EOF()
217 *
218 ENDIF
219 *
220 * RETURN TO CALLING PROGRAM
221 *
222 SET PRINT OFF
223 RELEASE ACCEPT, CHOICE, LINECT, PAGENO, TODAY, TODATE
224 CLOSE DATABASES
225 RETURN
226*************************************************************************

416
* PROCEDURE SNOSTRPT.PRG

* AUTHORS : LCDR EDWARD J. CASE, SC, USN
* LCDR WINSTON H. DUCKLEY, SC, USN
* LCDR ROBERT F. BRAVO, USN
* LCDR ROBERT L. BEARD III, SC, USN

* PURPOSE : PROVIDE THE USER A SPLICE SERIAL NUMBER SITE LEVEL REPORT.

* INPUT FILES : SERIALNO.DBF, SERNOSIT.NDX, DESCRIP.DBF,
* DESCRIP.NDX

* CALLED BY : SITERPTS.PRG

* MODULES CALLED : DELAY.PRG

* GLOBAL VARIABLE: HISITE, LOSITE

* LOCAL VARIABLES: ACCEPT, CHOICE, ERROR, LINECT, MESSAGE, MSITE,
* PAGENO, TODAY, TODATE

* DATE LAST TIME MODIFIED = 27 DECEMBER 1985

* CASE SELECTION = 3 SERIAL NUMBER SITE LEVEL REPORT

SET ESCAPE OFF
SET TALK OFF
SET COLOR TO W+/B, W+/B, B
CLEAR
USE SERIALNO
GO TOP
IF EOF() = .T. THEN
    SET COLOR TO W+/R, W+/R
@ 13,22 SAY "The SERIAL NUMBER Database is EMPTY!"
DO DELAY
RETURN
ENDIF
?? FLASH + "S.REPORTS.SCR/"
@ 24,0 SAY SPACE(80)
SET COLOR TO R+/ , R+/
@ 2,26 SAY "SITE SERIAL NUMBER REPORT"
SET COLOR TO W+/BR, W+/BR
@ 13,15 SAY "Enter site number for which the report is desired:"

* CALL SERIAL NUMBER DATABASE INDEXED ON SITE NUMBER,
* FEATURE NUMBER AND SERIAL NUMBER. RELATE TO DESCRIPTION FILE.
* SELECT 1
USE SERIALNO INDEX SERNOSIT.NDX
APPENDIX B: MAINTENANCE MANUAL

SNOSTRPT.PRG Program Listing

Page 2

SELECT 2
USE DESCRIPT INDEX DESCRIPT
SELECT SERIALNO
SET RELATION TO FEATURENO INTO DESCRIPT *
DO WHILE .T.
  SET COLOR TO /BR, /BR
STORE LOSITE TO MSITE
  @ 13,66 GET MSITE PICT '99'
READ
  IF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE) THEN
    SET COLOR TO W+/R, W+/R
    STORE "Response must be between ' + LOSITE + ;
    ' and ' + HISITE + ' TO ERROR
    @ 24,22 SAY ERROR
    DO DELAY
    LOOP
  ELSE
    DO TOP
    FIND &MSITE
    IF EOF(): .T. THEN
      STORE "No serial numbers exist for site " + MSITE + ;
      "try another site " TO MESSAGE
      @ 24,13 SAY MESSAGE
      DO DELAY
      LOOP
    ELSE
      EXIT
    ENDIF .NOT. (MSITE >= LOSITE .AND. MSITE <= HISITE)
  ENDIF
ENDDO WHILE .T.
*
SET COLOR TO W+/BR, W+/BR
  @ 13,15 SAY SPACE(60)
*
ENSURE "ITAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
*
  @ 13,16 SAY "Do you want a printed report? (Yes or No): "
SET COLOR TO /BR, /BR
  @ 13,49 SAY "Y"
  @ 13,56 SAY "N"
STORE "N" TO ACCEPT
  @ 13,62 GET ACCEPT PICT ":!
READ
*
ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
*
DO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
APPENDIX B: MAINTENANCE MANUAL

SNOSTRPT.PRG Program Listing

101 IF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y") THEN
102 SET COLOR TO W+/R, W+/R
103 @ 24,24 SAY "Response must be either N or Y"
104 DO DELAY
105 STORE "N" TO ACCEPT
106 ENDIF .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
107 SET COLOR TO /BR, /BR
108 @ 13,62 GET ACCEPT PICT ":" 
109 READ
110 ENDDO WHILE .NOT. (ACCEPT = "N" .OR. ACCEPT = "Y")
111 * 
112 SET COLOR TO /BR, /BR
113 @ 13,15 SAY SPACE(55)
114 * 
115 IF ACCEPT = "Y" THEN
116 ?? FLASH + "W.PRINTER/"
117 SET CONSOLE OFF
118 WAIT TO CHOICE
119 SET CONSOLE ON
120 SET COLOR TO W/B, W/B
121 @ 22,10 SAY SPACE(65)
122 STORE DLOC(DATE()) TO TODAY
123 STORE SUBSTR(TODAY,4,2) + " " + MONTH(DATE()) + " 19" ;
124 SUBSTR(TODAY,7,2) TO TODATE
125 STORE 0 TO PAGE NO
126 STORE 61 TO LINECT
127 SET COLOR TO R+/R, R+/R
128 SET DEVICE TO PRINT
129 * 
130 DO WHILE .NOT. EOF()
131 DO WHILE (LINECT <= 60 .AND. .NOT. EOF())
132 @ LINECT,3 SAY SITENO
133 @ LINECT,7 SAY DESCRIPT->CLIN
134 @ LINECT,15 SAY FEATURENO
135 @ LINECT,24 SAY DESCRIPT->DESCRIPT
136 @ LINECT,52 SAY EFFDATE
137 @ LINECT,60 SAY TOTQTY
138 @ LINECT,65 SAY QTY
139 @ LINECT,70 SAY SERIALNO
140 LINECT = LINECT + 1
141 SKIP
142 ENDDO WHILE WHILE (LINECT <= 60 .AND. .NOT. EOF())
143 * 
144 IF EOF() = .T. THEN
145 IF PAGE NO > 1 THEN
146 @ 62,37 SAY "Page " + STR(PAGENO,2,0)
147 ENDIF PAGENO > 1
148 EJECT
149 SET DEVICE TO SCREEN
150 @ 13,25 SAY "FINISHED PRINTING THE REPORT"
APPENDIX B: MAINTENANCE MANUAL

Page 4

SNOSTRPT.PRG Program Listing

DO DELAY
EXIT
ELSE
SET DEVICE TO SCREEN
@ 13,27 SAY " Printing Page Number " + STR(PAGENO + 1,2,0) + "."
SET DEVICE TO PRINT
ENDIF EOF() = .T.

IF (LINECT > 60 .AND. PAGENO > 1) THEN
@ 62,37 SAY "Page " + STR(PAGENO,2,0)
ENDIF (LINECT > 60 .AND. PAGENO > 1)
@ 2,26 SAY " SITE SERIAL NUMBER REPORT 
@ 4,60 SAY TODATE
@ 6,52 SAY "EFFECT COMPT SERIAL"
@ 7,2 SAY "SITE CLIN FEATURE# DESCRIPTION DATE"
@ 7,60 SAY "QTY QTY NUMBER"
@ 8,2 SAY "=========================================
@ 8,51 SAY "=========================================
PAGENO = PAGENO + 1
STORE 10 TO LINECT

ENDIF WHILE .NOT. EOF()
ELSE
SET COLOR TO TR/, BR/
@ 4,52 SAY "EFFECT COMPT SERIAL"
@ 5,2 SAY "SITE CLIN FEATURE# DESCRIPTION DATE"
@ 5,60 SAY "QTY QTY NUMBER"
STORE 0 TO LINECT

DO WHILE .NOT. EOF()
DO WHILE LINECT < 15
@ LINECT*7,3 SAY SITENO
@ LINECT*7,7 SAY DESCRIP-.CLIN
@ LINECT*7,15 SAY FEATURENO
@ LINECT*7,24 SAY DESCRIP-.DESCRIPT
@ LINECT*7,52 SAY EFDATE
@ LINECT*7,60 SAY TOTQTY
@ LINECT*7,65 SAY QTY
@ LINECT*7,70 SAY SERIALNO
LINECT = LINECT + 1
SKIP

IF EOF() = .T. THEN
SET COLOR TO W/+R, W/+R
@ 24,18 SAY " End of File reached, Press any key to EXIT "
SET CONSOLE OFF
WAIT TO ACCEPT
SET CONSOLE ON
EXIT
SNOSIRPT.PRG Program Listing

201 ENDIF EOF() = .T.
202 ENDDO WHILE LINECT < 15
203 *
204 IF EOF() = .T. THEN
205 EXIT
206 ENDDO EOF() = .T.
207 SET COLOR TO R+/B, R+/B
208 STORE "C" TO CHOICE
209 @ 22,57 GET CHOICE PICT ":!"
210 READ
211 *
212 * ENSURE THAT THE USER'S RESPONSE IS EITHER "Y" OR "N"
213 *
214 DO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
215 IF .NOT. (CHOICE = "C" .OR. CHOICE = "X") THEN
216 SET COLOR TO W+/R, W+/R
217 @ 24,24 SAY "Response must be either C or X"
218 SET COLOR TO R+/B, R+/B
219 @ 22,57 GET CHOICE PICT ":!"
220 READ
221 ENDDO WHILE .NOT. (CHOICE = "C" .OR. CHOICE = "X")
222 *
223 DETERMINE IF THE USER WANTS TO QUIT OR CONTINUE
224 *
225 IF CHOICE = "C"
226 SET COLOR TO /BR, /BR
227 @ 07,2 SAY SPACE(76)
228 @ 08,2 SAY SPACE(76)
229 @ 09,2 SAY SPACE(76)
230 @ 10,2 SAY SPACE(76)
231 @ 11,2 SAY SPACE(76)
232 @ 12,2 SAY SPACE(76)
233 @ 13,2 SAY SPACE(76)
234 @ 14,2 SAY SPACE(76)
235 @ 15,2 SAY SPACE(76)
236 @ 16,2 SAY SPACE(76)
237 @ 17,2 SAY SPACE(76)
238 @ 18,2 SAY SPACE(76)
239 @ 19,2 SAY SPACE(76)
240 @ 20,2 SAY SPACE(76)
241 @ 21,2 SAY SPACE(76)
242 STORE 0 TO LINECT
243 ELSE
244 EXIT
245 ENDIF CHOICE = "C"
246 *
247 ENDDO WHILE .NOT. EOF()
251 | *
252 | ENDIF ACCEPT = "y"
253 | *
254 | * RETURN TO CALLING PROGRAM
255 | *
256 | SET PRINT OFF
257 | RELEASE ACCEPT, CHOICE, ERROR, LINDEX, MESSAGE, MSITE, PAGENO,;
258 | TODAY, TODATE
259 | CLOSE DATABASES
260 | RETURN
261 | *****************************************
262 |
BIBLIOGRAPHY


# INITIAL DISTRIBUTION LIST

<table>
<thead>
<tr>
<th>No. Copies</th>
<th>Initial Distribution List</th>
</tr>
</thead>
</table>
| 2          | 1. Defense Technical Information Center  
Cameron Station  
Alexandria, VA 22304-6145 |
| 2          | 2. Library (Code 0142)  
Naval Postgraduate School  
Monterey, CA 93943-5002 |
| 1          | 3. Computer Technology Curriculum Officer (Code 37)  
Naval Postgraduate School  
Monterey, CA 93943-5000 |
| 2          | 4. Barry A. Frew (Code 54Fw)  
Naval Postgraduate School  
Monterey, CA 93943-5000 |
| 2          | 5. Commanding Officer  
Naval Supply Center (Code 60)  
Attn: LCDR Robert L. Beard III  
Charleston, SC 29408-5000 |
| 1          | 6. Commander  
Naval Supply Systems Command  
Attn: LCDR Ted Case (SUP 043A)  
Washington, DC 20376-5000 |
| 1          | 7. Commanding Officer  
Navy Fleet Material Support Office  
Attn: LCDR Winston Buckley  
P.O. Box 2010  
Mechanicsburg, PA 17055-0787 |