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STANDARDIZED FACILITY RECORD AND  
REPORT MODEL SYSTEM  
—FARMS—  
FOR MATERIAL ACCOUNTING AND CONTROL

July 1990

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Standardized Facility Record and Report Model System  
- FARMS -  
for Material Accounting and Control

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A facility in which nuclear materials are handled maintains a facility system of accounting for and control of nuclear material. Such a system contains, as one of key elements, a record and report system. This record and report information system is a rather complex one because it needs to conform to various requirements from the national or international safeguards authorities and from the plant operator who has to achieve a safe and economical operation of the plant. Therefore it is mandatory to computerize such information system. The authors have reviewed these requirements and standardized the book-keeping and reporting procedures in line with their computerization. On the basis of this result the authors have developed a computer system, FARMS, named as an acronym of standardized facility record and report model system, mainly reflecting the requirements from the national and international safeguards authorities. The development of FARMS has also been carried out as a JASPAS - Japan Support Programme for Agency Safeguards - project since 1985 and the FARMS code was demonstrated as an accountancy tool in the regional SSAC training courses held in Japan in 1985 and 1987.

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This report describes the standardization of a record and report system at the facility level, its computerization as a model system and the demonstration of the developed system, FARMS.

Keywords : Safeguards, SSAC, Accounting, Control, Record, Report, Facility System, Standardized System, Computer Code, Personal Computer

施設レベルの核物質計量管理の記録・  
報告に係る標準化モデルシステム  
— F A R M S —

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(1990年6月16日受理)

核物質を取扱う原子力施設では施設計量管理制度を維持している。この一環として記録・報告の制度があるが、国内・国際保障措置からの要請、施設操業・管理上の要請等から、複雑な制度となっており、そのコンピュータ化は必須である。このような施設レベルの核物質計量管理の記録・報告システムに関して要件の整理を行って標準化するとともに、国内・国際保障措置に基づく要件を中心に、コンピュータ化を行って標準化モデルシステム F A R M S を開発した。本システムはまた、「日本国の I A E A 保障措置支援計画 ( J A S P A S )」の 1 プロジェクトとして開発したもので、東南アジア・太平洋地域を対象とした国内計量管理制度に関するトレーニングコースにおいて使用した。

本報告書は、施設における記録・報告システムの標準化及びそのコンピュータ化、F A R M S コードの利用方法等について記述している。

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## 1. Introduction

Computerization of a record and report system for the nuclear material accounting and control is a common trend at relatively large scale facilities. It makes it possible to prepare reports accurately, quickly and repeatedly by responding to any queries if the procedures have already been defined in the system. It can guarantee the high quality of data to the users of the system if the quality control procedure is well designed and computerized. It may also reduce the manpower needed to treat information related to accounting and control of nuclear material if the program is well defined and organized.

The first problem to be encountered in the course of computerization is that the computerization inevitably needs the installation of some type of computer together with its maintenance and operation. Therefore, an evaluation of cost-effectiveness of the computerization is required before a decision of the computer installation is made. The authors estimate that the computerization would be cost effective for a facility with a research reactor and for much bigger facilities as a size. The computer type to be installed would depend on the size of the facility, ranging from micro-computer (personal computer) to mini-computer.

The second problem is that the specifications required for the system are not simple but rather complicated because the requirements are not only many but also different among those of the plant manager, the national inspectorate and of the international organization which implements safeguards. It is also not easy tasks to materialize all these requirements into statements understandable on a computer.

If a standardized system is developed, it would be applicable to any type of facilities, adding or deleting data elements required or not required by the facility according to its own needs. Moreover the standardized system could reduce very much the cost for developing a facility-specific information system for each facility and may facilitate computerization in relatively small facilities as well as large ones if a computer to be installed is of reasonable cost.

Another benefit of standardization lies in an easy computerization of the book audit procedure for safeguards purposes. Since the book audit is carried out manually at present, computerization of this procedure would enable inspectors to make a complete checking of records and reports within a relatively short period of time, reducing inspection efforts substantially.

In 1984, the authors developed a standardized facility record and report



model system with an acronym of FARMS using a personal computer (PC), mainly reflecting the requirements from the national and international safeguards authorities, and demonstrated it at the occasion of the first regional SSAC training course held at Tokai and Tokyo, Japan, in March 1985 [1]. Responding to requests from the participants to the training course and from others, who want the system to be released, JAERI started a JASPAS project in June 1985 with the aims to provide facility operators, who intend to computerize their information system, with a computerized model standard record and report system at the facility level and thereby to assist the inspectorates to establish a computerized book audit procedure as a means of attaining an efficiency in inspection activities [2,3].

In order to investigate the impact of the standardized system on the computerization of the audit procedure, the authors developed a model record audit system with an acronym of R.AUDIT [4] in 1985. They concluded that such computerization becomes most effective if the operator's accountancy information system is standardized and is fully utilized.

The first version of FARMS was programmed with FORTRAN 77 and was constructed on the basis of a data base with simple structure which was managed through routines programmed by the authors, taking into account the portability of the software. It was troublesome, however, to extend the system by enlarging the data base to incorporate new requirements arising from its practical applications. Therefore, in 1986, the authors updated the system by using dBASE-III as its data base management system and entirely rewrote the program utilizing the dBASE-III query language. This second version of FARMS was used for the second regional SSAC training course held at Tokai, Oarai, Kurihama and Tokyo, Japan, in October 1987 [5].

The original and the second versions of FARMS were dedicated only to an item material handling facility. Since it is desirable for the system to be able to treat with a bulk handling facility as well, the authors investigated the possibility of extension of the system and developed a few fundamental functions such as the treatment of multiple material balance areas and the preparation of physical inventory listings (PIL) on the basis of measured data. It was found, however, that the extension can not be easily done. The reason is that the information system for a bulk facility has to handle various measurement data and to analyze MUF data, notwithstanding FARMS is a PC based system. Therefore, the authors looked for an alternative solution and tried to standardize a data processing code, PROMAC-C, developed specifically for the near real time material accountancy on a mini-computer basis [6,7], by adding a reporting function to the code because it had already been able to handle all data elements needed in a bulk facility information system, and it was successfully carried out in 1987.

The record and report system at the facility level should fulfill the requirements not only of the safeguards agreement with IAEA but also of bilateral agreements with countries supplying nuclear material. The latter agreements normally require the country which imports the nuclear materials to flag and track them when they stay in the fuel cycle of that country. A model flagging and tracking system was developed as a different version of FARMS [8] in 1988.

In this report, descriptions are given on the requirements for and the standardization of the facility record and report system in the section 2, on the construction of a generic system for a facility which mainly handles itemized nuclear materials in the section 3 and on the FARMS demonstration in the section 4. In the section 5, problems of the applicability of FARMS to a real facility, its interface with an audit system, an extension of FARMS as a bulk facility information system and the inclusion of a flagging and tracking system are discussed.

## 2. Standardization of a Record and Report System

### 2.1 General Features of a Facility Information System

Compared with a national or international system for nuclear material accounting and control, the facility system would not handle a large amount of data, but instead it would treat a lot of data elements, ranging from planning data for nuclear fuel purchases to the data which have been consolidated as batch data for reporting inventories or inventory changes.

It could be safely said that the information system at the facility level has, with regard to the information control, a purpose different from that for the national or international safeguards because first of all the facility system is intended to be used for the safe and economical operation of the nuclear plant. The criticality safety of an amount of nuclear material should always be kept under a strict control at any time and any place in the facility. Since radioactive nuclear materials should be placed under shields apart from personnel for their health, the radioactivity of nuclear material should be calculated if its transfer from one place to another is attempted. Besides these points, the facility operation itself needs, on a real time or on a near-real time basis, information on the locations, types and quantities of nuclear materials in the facility. On the other hand, from the commercial point of view, nuclear material should be continuously purchased or introduced into the plant and sent out to other facilities for smooth operations, under a proper control.

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Additional requirements for the facility system come from the State System of Accounting for and Control of Nuclear Materials (SSAC) which is designed to cope with the requirements for international safeguards as well as for domestic purposes. Major requirements of these are to record every event affecting the nuclear material with its location, type and quantity, after measurements if appropriate, and to report inventory changes, physical inventories and material balances at given intervals. It should be noted, however, that only if the reporting is incorporated, the facility system, in principle, could fulfill all such requirements by coping with the facility requirements for plant safety and operator's economies.

## 2.2 System Requirements

A record and report system in a facility should handle every receipt of nuclear materials from, and shipment to, other facilities, and their transfer within the facility as well as every inventory of them at an allocated place in the facility. These receipts, shipments, transfers and inventories of nuclear materials have, in their nature, three stages:

Planning stage  
Implementation stage, and  
Reporting stage.

In the planning stage, nuclear materials are planned to be introduced into the facility, transferred from one place to another within the facility, shipped to other facilities, and inventoried at a proper interval. This is a part of the schedule of plant operations. In this stage, information on the nuclear materials is used for operator's financial accounting and personnel management as well as for checking the plant safety, such as criticality and radiation hazard, and the compliance with the national laws and regulations. Some planning data on the nuclear materials might be required by the SSAC authority for their inspection planning. The planning data, in general, are subject to changes, from roughly planned data to a final adjustment to the operation schedule. Therefore, it is important that the data stored in the system's data base can easily be replaced. Some old data, however, would still need to be kept in the system as the archives for the future planning and analyses if, for example, the data had been reported to the authority. In order to realize this, an archives function as well as a data replacement function should be provided in the system. Another feature of the planning data is that an authorization to the plan would be given before starting operations according to the plan. This authorized operation plan should be stored in the archives as well as the final operations which may be different from the plan.

In the implementation stage, nuclear materials are physically moved according to the authorized operation plan, or are checked as to their presence at an allocated place on the basis of a book inventory listing. Therefore, the information concerned at this stage relates to the confirmation of material receipts, shipments, transfers or inventories together with the confirmation of their accounting data. If a change is required to the original plan, it should be treated in the planning stage as a modification because changing the plan normally requires considerations to the safety and other aspects before starting the receipts, shipments or transfers of nuclear materials. When a correction is needed to the accounting data at the time of confirmation, as in a bulk handling facility, the data replacement by the correct data, on one hand, and the data storage of the old record as the archives, on the other hand, are to be carried out. If the accounting data have been confirmed, a responsible person would give authorization to the records as the established ones. Once the authorization has been given, the records should be kept in the system, for example, for ten years for the book audits of the authority or for reporting and management purposes in the facility.

In the reporting stage, receipts, shipments, transfers or an inventory taking of nuclear materials have already been completed and only their reporting is required for the SSAC or for the plant management. For this purpose, the data stored in the system have to be processed and provided as an output in a desired form. It should be noted, however, that the records and reports are subject to corrections due to clerical errors, misunderstandings or other causes. If a correction is carried out by a simple replacement procedure, old records cannot be retrieved anymore because the procedure destroys the old records. The original records, however, are sometimes requested to be retrieved. Therefore, a chaining scheme in which the original record and a new one are related to each other should be established in the system as well as the corresponding software for record corrections.

As a general requirement for the system, a user of the system should be able to handle input data by freely adding, deleting and changing them at the stage of records preparation, on one hand. On the other hand, the system should prevent one from deleting valuable data mistakenly. To do so, a data base management sub-system should be established within the record and report system. All data treated in the system must be error-free and the data as well as the system should be protected against their misuse or destruction. To realize these, a quality control function and a data security function are very important.

### 2.3 System Construction

For the system to carry out the work mentioned in the sub-section 2.2 above, the system should have the following functions:

- An input function including an authorization to records stored and an editing process,
- A quality control function,
- Functions for a data base management, such as creating, updating or eliminating a file and storing, changing, deleting or retrieving a set of data elements,
- Functions of data processing and reporting, and
- System back-up and security functions.

These functions are illustrated in Fig. 1 together with the data flow in the system.

As the input function, the system should be able to read in data of a fixed format or of a free format in an interactive manner or in a batch mode through a key-in device or by an alternative means such as a cassette and a floppy disk. The authorization to the records already given as an input should be a secured input protected by a password or a key number. In order to simplify the correction procedure, the system should be able to retrieve the original record so that it could easily be edited to prepare a correct record.

As for the quality control function, the system should check input data one by one for each data element, taking into account its nature, restrictions imposed and rules predetermined, at the time of input because this makes the correction of syntactical errors or wrong input data much easier. The criticality check, assessment of a radiation activity level, and the other sophisticated checking of input data might be carried out as a function of data processing. Correction of error data could be done by one of the following procedures: overwriting the wrong input data; giving the correct data as an input just after the error checking has been completed with error messages appearing on the display device; replacing the entire record with a correct one after the completion of initial input if immediate correction is difficult or impossible at the time of input; or using a chaining scheme with reference to the original record if the authorization has already been given to the record.

The system should have a data base management sub-system for storing data, and for changing, deleting and retrieving the data stored in the data base. This sub-system could be a commercially available system normally

developed on a specific mini-computer or micro-computer. It is desirable, however, for the management sub-system to have a function of handling the data base which is classified for security reasons. At least four types of users should be identified: a system operator who is authorized to engage in inputting, quality controlling and data processing work; a supervisor who gives the authorization to the system operator and other users to make access to the system, authorizes the records entered by the system operator, and does work for system maintenance and control; a plant operator or management person who uses the system by directly retrieving data from the data base or by requesting a report to the system; and an inspector who carries out the record audits for the SSAC or for the international safeguards. Each type of users should have a limited access to the system except for the supervisor: the system operator cannot perform the functions the supervisor normally carries out; the plant operator or management person is permitted to make access to every data stored in the system but not permitted to write data on a data base file; and the inspector has an access only to a permitted area of data base by retrieving such data from the data base.

As one of the data processing functions, the system should provide the users with the reports which are required by the SSAC authority or a manager of the plant in a given form at a monthly interval or at the time of inventory changes or physical inventory taking. It may as well have functions of producing a batch follow-up list, an updated book inventory listing and the total accounts for receipts of nuclear materials, shipments to other facilities, transfers within the plant and for inventories of nuclear materials at each inventory key measurement point.

The system should be protected from an unauthorized use and the data base should be backed up at a proper time interval by taking a copy of the data base on a cassette or on a floppy disk. These functions may be provided by the data base management sub-system.

## 2.4 Data Elements

The following types of information should be kept in the data base:

- Design Information (DI)
- Inventory Change (IC) data,
- Updated Book Inventory (BI) data,
- Physical Inventory (PI) data,
- Material Balance (MB) data, and
- Heading Information (HI) for IC, BI, PI and MB data.

Data elements for each type of information are defined so as to satisfy

the requirements of the facility operator, the SSAC and the international safeguards authorities. The requirements for the data elements from the SSAC and from the international safeguards authorities are well defined and described, for example, in the training course manual [9]. Some additional data elements may be required by the facility operator. Some facility specific considerations are given below.

The design information (DI) is used for checking the input data given to the system as to whether or not key words and codes are correctly given, an inventory of nuclear material is within the capacity of storage, criticality and radiation levels are well below the critical values, etc. For this purpose, such additional data elements as the critical values would need to be provided.

The inventory change (IC) data are similar to those of the inventory change report (ICR). The facility code and material balance area (MBA) code which officially identify the facility, however, are not required if only one MBA exists in the facility because other facilities are not handled in this system. Since source data are to be recorded, item data as well as batch data are stored. Isotopic composition data for every isotope of uranium, plutonium and thorium are handled, if such data are available. The burnup history of a fuel assembly and the time of its discharge from the reactor are important data if a reactor is the case. Additional identification data for fuel pins and bundles are also recorded, if needed. All these data, if appropriate, are given upon receipt of nuclear material from another facility, but only a part of data need to be updated when the material is transferred within the facility or shipped to other facilities because the remaining data are the same as the original ones.

The book inventory (BI) data consist of inventory records at each inventory key measurement point (IKMP), which are prepared and updated reflecting nuclear material transactions as the inventory changes or the transfers of nuclear materials occur.

The physical inventory (PI) data are the same as the BI data if the presence of nuclear materials at each IKMP is confirmed without remeasurement on the basis of the BI listing. If remeasured, then the measured data become the PI data.

The material balance (MB) data are the sums of the inventory changes during a material balance period for each type of inventory changes and the sums of the inventories at the beginning and at the end of that period. Since these data have to be reported to the national authority, they are stored in the data base when a physical inventory is established.



The heading information (HI) is the information for report headers and is used for the control of IC, BI, PI and MB data.

## 2.5 A Standard Procedure for Recording and Reporting at a Model Item Facility

A model item facility is an LWR plant which consists of a fresh fuel storage area, a reactor and a spent fuel storage pool. These three areas are identified as inventory key measurement points (IKMPs) in terms of the accounting and safeguards, where inventories are taken at the end of material balance period, while the whole plant is recognized as one material balance area (MBA). Flow key measurement points (FKMPs) are usually located at the boundaries between the inventory areas, where nuclear materials are received, shipped and transferred. At the boundary between the reactor and the spent fuel storage pool, the nuclear materials are transferred as the spent fuel from the reactor to the spent fuel storage pool and the nuclear loss and production are estimated at the same time. Although there are no inventory changes at the boundary between the fresh fuel storage area and the reactor, an FKMP should be established only for internal use to handle the transfer of fresh fuel to the reactor.

When the nuclear materials are received, all relevant information on the materials is given to the system and recorded on an inventory change (IC) file together with the FKMP code, IC code and the date of IC. At the same time, the information is recorded on a book inventory (BI) file with the IKMP code for fresh fuel storage area. Reporting is made in a list of fuel assemblies received during the same period, together with other types of inventory changes.

When a fuel assembly is transferred from the fresh fuel storage area to the reactor, only the batch name of the assembly is needed among the data on the material and this is supplied to the system along with the FKMP-for-internal-use code and the date of transfer. The system searches the data which belong to this batch on the BI file and the data are recorded on the IC file together with the batch name, related KMP codes and the date of transfer. The data recorded on the BI file are left there but with the IKMP code being changed from the fresh fuel storage area to the reactor. Reporting of this transfer is not required for the international safeguards, but it might be required by the SSAC, while this information is useful and necessary for the plant operation and fuel management.

When a fuel assembly is discharged from the reactor to the spent fuel storage pool, the batch name of the assembly and its burnup data are given to the system along with the related KMP codes, IC codes for nuclear production

and loss, and the date of discharge. The system looks for the batch on the BI file and the data on this batch are recorded on the IC file together with the related KMP codes and the date of discharge. At the same time, the burnup data are stored on the IC file. The data recorded on the BI file are changed with regard to the IKMP code from the reactor to the spent fuel storage pool, and the accounting data are adjusted with the burnup data. Reporting of this discharge for international safeguards is required in terms of nuclear loss and production together with the IC code and the date of discharge.

When a spent fuel assembly is shipped from this facility to a reprocessing plant or a storage facility, the batch name of the assembly is given to the system along with the related KMP, MBA codes, IC code and the date of shipment. The system picks up the batch information from the BI file and the data on this batch are recorded on the IC file together with the related KMP, MBA codes, IC code and the date of shipment. The data recorded on the BI file for this batch are deactivated or erased. Reporting of this shipment is made in an inventory change report (ICR) for the international safeguards.

When a physical inventory (PI) is taken, a list of BIs is prepared before the inventory taking. On the basis of this list, the presence of nuclear materials at each IKMP is verified. Upon completion of this verification, the system makes a copy of the BI data and transfers it to the PI file and a material balance (MB) is calculated on the basis of the data on the IC file and on the PI file. The result is recorded on the MB file. Reporting of these PI and MB data for the international safeguards is performed in a physical inventory listing (PIL) and a material balance report (MBR).

Correction to a record stored in the data base is carried out by the replacement of the record if the authorization of the record has not yet been given. Otherwise a chaining scheme is used for the correction by referring to the original record using a record identification number. If a set of correction data is given, the system records this on the IC file or simply executes a replacement procedure depending on the status of the record authorization. The system also changes the corresponding data on the BI file, and generates a record for correction on the PI and MB files, if necessary. If a material unaccounted for (MUF) is discovered, a special procedure should be taken. Such a special case is not handled for the item facility in this model system.

### 3. Computerization of a Record and Report System

A computerized system for records and reports at the facility level has been developed for demonstration using a personal computer, PC-9801, operated under MS-DOS and a commercially available dBASE-III as the data base management sub-system. This is rather a simple system and it would be easy to modify the system for specific requirements. The following sub-sections give an outline of the system.

#### 3.1 Hardware

A desk top type personal-computer is used for the operation of the system. It has:

- A CPU,
- Core memory of 640 K-bytes,
- A RAM board of 1.5 M-bytes,
- Two floppy disk drives,
- An input key board,
- An output display device such as a CRT, and
- A printer.

#### 3.2 Computer Language and System Programs

Procedures which the system is composed of are programmed using the query language of dBASE-III. The outline of the procedures is described in Table 1 and the program structure is given in Fig. 2. The source list of the FARMS code is attached to this report as an appendix.

In order to make the system treat with data as fast as possible, better commands are chosen among those which have the similar function and the use of files in terms of 'open' and 'close' is optimized as well as the use of index files. Programs which are used often are stored in one of five procedure files and are transferred to the core memory of PC at the time of FARMS start-up.

#### 3.3 Input and Authorization

Input data are to be given to the system through an input key board in an interactive manner according to the instructions given in Table 2. Major design information is given to the system as an input. It includes organization code, facility code, material balance area (MBA) code, flow key measurement point (FKMP) codes and inventory key measurement point (IKMP) codes. The inventory change (IC) codes and the material description codes are

to be consistent with those built in to the system program as given in Tables 3 and 4. Some data elements for inventory changes and for inventories are given their values in an input and others are automatically fixed at a value by the system, if possible. The measurement basis code, for example, may be automatically assigned or changed by the system in accordance with the definition given in Table 5. If it is the case of an item facility, the inputs for a physical inventory (PI) and for a material balance (MB) is limited to a few data because the major parts are automatically provided by the system, e.g., in the case of MB the system calculates such values as the weight of element for each entry which is identified by the entry name given in Table 6. If the case is a bulk facility, however, a full set of input data is requested for the PI although only a few are needed for the MB.

A facility information system has to handle facility oriented data which are not requested to report to the national authority for safeguards and other purposes. In a case of reactor, an example is a transfer of fresh fuel assemblies from the fresh fuel storage area to the reactor core. In order to avoid technical difficulties arising from such difference at a time of reporting, the facility oriented data such as the transfer data should be treated in a separate report in this model system.

Authorization is a process independent of the input process for accounting data. Before the authorization is given, IC data stored on the IC file can be freely changed by the replacement procedure. If the authorization is issued, however, the IC data cannot be replaced. Data correction should be carried out by the chaining procedure so as to preserve the old data. If a set of IC data is authorized, then the corresponding inventory change report (ICR) is generated with the identical report number but without the data for transfers within the MBA and stored on the ICR file. If there are IC data to which the authorization has not yet been given, then the related physical inventory listing (PIL) and material balance report (MBR) are not provided by the system although a warning message is issued on the CRT. If an error entry remains to be corrected in a report, the authorization to such a report is prohibited with the system displaying a warning message.

### 3.4 Quality Control

At the time of input, the following data checks are carried out after the completion of the input or of a full screen input (12 lines of entry) :

- Syntactical error check,
- Data comparison with the design information, and
- Consistency check among different types of data elements and records.

If erroneous data are found, an error message is shown on the screen as given in Table 7 and the correct data is requested to be given. An error entry is displayed with different color distinguishing it from an error-free entry.

Corrections to the records stored in the data base are two-ways, i. e., simply replacing the error record with a correct one or chaining a correct record to the erroneous one.

### 3.5 Data Base

All records are stored in the data base of the system. This data base is designed to store various records for ten years and has the following files:

<u>Name of file</u>	<u>Data elements</u>	<u>Record length(Byte)</u>
- Facility file	5	208
- MBA file	4	13
- KMP file	22	107
- Measurement method file	8	80
- Heading information file	18	188
- Inventory change(IC) file and ICR file	24	88
- Book inventory(BI) file and BI work file	15	67
- PIL file	20	69
- MBR file	15	64
- Work file for summary	23	215

In order to make a quick access to a data base file possible, index files are defined with regard to a specific field, e. g. batch number, or a combined field such as report number and entry number: six files for the IC file, two files for the ICR file, one file for the BI file, four files for the PIL file, four files for the MBR file, two files for the BI work file and one file for the MBA file. These data base files including the index files are handled through dBASE-III for the file managements such as creating, updating and deleting files.

Data elements for the facility file are : organization code, name of the organization, address of the organization, facility code and facility name.

Data elements for the MBA file are : MBA code, FKMP code, from-*IKMP* code and to-*IKMP* code.

Data elements for the KMP file are : KMP code, type of inventory change, material description code, number of items in batch, maximum and minimum

weights of batch, element code, maximum and minimum weights of element, isotope code, maximum and minimum weights of fissile isotopes, method and number of measurements for weighing, method and number of samplings and method and number of analyses for element factor, and method and number of samplings and method and number of analyses for isotope factor.

Data elements for the measurement method file are : type of measurement, measurement method code, random error, short term systematic error, long term systematic error, period from calibration to calibration, latest date of calibration, and name of standard used.

Data elements for the heading information file are : report No., period covered by the report (from-date and to-date), date of input, organization code, name of the organization, address of the organization, facility code, facility name, MBA code, MBA name, name of responsible person, number of entries for accounting, number of entries for isotopic composition, number of entries for concise note, type of record, date of physical inventory taking (valid for PIL), flag for authorization.

Data elements for the IC file and for the ICR file are : MBA code, report No., entry No., continuation code, date of IC, MBA/country/IKMP codes (receipt from or shipment to MBA/country or transfer from an IKMP to another IKMP), type of IC, FKMP code, name or No. of batch, number of items in batch, material description codes, origin code, element code, weight of element, unit, weight of fissile isotopes, isotope code, measurement basis code, concise note code, correction to - report No. and entry No., type of record and flag for correction.

Data elements for the BI file and a work file for book inventory calculation are : date of book inventory, MBA code, organization code, facility code, IKMP code, name or No. of batch, number of items in batch, material description codes, origin code, element code, weight of element, unit, weight of fissile isotopes, isotope code, and measurement basis code.

Data elements for the PIL file are : MBA code, report No., entry No., continuation code, IKMP code, name or No. of batch, number of items in batch, material description codes, origin code, element code, weight of element, unit, weight of fissile isotopes, isotope code, measurement basis code, concise note code, correction to - report No. and entry No., type of record and flag for correction.

Data elements for the MBR file are : MBA code, report No., entry No., continuation code, entry name code, origin code, element code, weight of element, unit, weight of fissile isotopes, isotope code, concise note code,

correction to - report No. and entry No., and type of record.

Data elements for a work file for calculating inventory change summary are : FKMP code, element code, weight of element for RF, NP, SF, LN, PB, BE and PE, isotope code, weight of fissile isotopes for RF, NP, SF, LN, PB, BE and PE, organization code, facility code, period to be covered (from-date and to-date), weight of element for transfer and weight of fissile isotopes for transfer.

### 3.6 Applications

Application software can produce such reports as an inventory change report covering a given period, a physical inventory listing and a material balance report at the end of a given period, a book inventory listing at a given time, a summary table of inventory changes and beginning and ending inventories for a given period, and a list of report numbers and the corresponding periods covered by the reports. Some examples of these printouts are shown in Figs. 3 - 7.

### 3.7 System Maintenance and Security

Functions for the system maintenance and security may be provided by the operating system or the data base management system or by the software developed. Examples are as follows: Data base files are backed up by copying them on a floppy disk through dBASE-III or MS-DOS; System programs and data files stored on diskettes are loaded on the PC before starting the system operation and off-loaded after completing the operation of FARMS.

#### 4. FARMS Demonstration

As mentioned in the section 1, the second version of FARMS was demonstrated at the second regional SSAC training course held in Japan in October 1987 [5]. The outline of the demonstration is described in this section as an example of how to use the FARMS code.

##### 4.1 Computer and Operating System

As a personal computer, one of the NEC's desk-top computers, PC-9801, was selected because of its availability at the Tokai Research Establishment, Japan Atomic Energy Research Institute, where this regional SSAC training course was held. The operating system of this computer was MS-DOS.

##### 4.2 Model Facility

As a model plant, a light water reactor (LWR) was picked up. This facility has one material balance area (MBA), three inventory key measurement points (IKMPs) and five flow key measurement points (FKMPs), as illustrated in Fig. 8. The relevant design information is given as follows:

<u>Key word</u>	<u>Number</u>	<u>Code</u>
Organization		ABCD
Facility		FAC1
MBA		MBA1
Number of IKMPs	3	
Name of IKMP		
Fresh fuel storage		A
Reactor		B
Spent fuel storage pool		C
Number of FKMPs	5	
Name of FKMP		
Receipt		1
Transfer to reactor		2
Transfer to pool		3
Shipment		4
Nuclear production/loss		*
Number of other MBAs related to the MBA	2	
Code of MBA		
MBA of a fuel fabrication plant		MBA0
MBA of a reprocessing plant		MBA2



### 4.3 Model Plant Operation

As a means to the demonstration purpose, a model operation of the model plant is assumed so as to cover all fundamental operations such as the initial receipt of nuclear material at the facility from a fuel fabrication plant, a transfer of new fuel assemblies to the reactor core, a discharge of nuclear fuel from the reactor core to the spent fuel storage pool, a shipment of spent fuel to a reprocessing plant, and an inventory taking at a proper time. Such model operation is illustrated in Fig. 9 and Table 8 gives the number of assemblies at IKMPs at the end of each key operation, while Table 9 gives the detailed batch information on the assemblies received, transferred or shipped.

### 4.4 Demonstration Scenario

In the model operation there are four basic operations which pertain to inventory changes and two such operations for physical inventory taking (PIT). Since each operation accompanied with inventory changes requires for the users of the system to give a set of fundamental data to the system in two steps, there are the following ten steps in total for the data input:

- (1) Supply information on the receipts of 13 new fuel assemblies by using Menu 1 and create an inventory change (IC) file and a book inventory (BI) file (the system automatically carries out these file creation process).
- (2) Authorize the report given in the step (1), by Menu 6.
- (3) Give the identifications of nine assemblies transferred from the new fuel storage area to the core, by Menu 1, and update the IC file and BI file (the system automatically carries out these file updating process).
- (4) Authorize the transfer report given in the step (3), by Menu 6.
- (5) Give a PIT date by Menu 2 and create a physical inventory (PI) file and a material balance (MB) file (the system automatically carries out such file creation process). This PIT is assumed to be performed immediately after the initial loading.
- (6) Supply information on the unloading of three spent fuel assemblies from the core and on the loading of three new fuel assemblies to the core, by Menu 1, and update the IC and BI files (the system automatically carries out these file updating process).
- (7) Authorize the fuel exchange report given in the step (6), by Menu 6.
- (8) Give a PIT date by Menu 2 and update the PI and MB files (the system automatically carries out these file updating process). This PIT is assumed to be performed immediately after the refueling.
- (9) Give a set of data with regard to the shipment of two spent fuel assemblies, by Menu 1, and update the IC and BI files (the system automatically carries out these file updating process).

- (10) Authorize the shipment report given in the step (9), by Menu 6.

During these input operations through an input terminal, the following features of the system are demonstrated:

- a. The system requires an input of minimum necessity so as to be able to reduce chances to make clerical errors.
- b. All input data are checked and messages are shown on the CRT if there are errors detected by the system.
- c. An error may be corrected in one of the following five procedures:
  - (a) by backspacing the cursor and overwriting the wrong data if the line entry is under the inputting process.
  - (b) during or at the end of operation for inputting a set of IC entries, when the error checking has not yet been carried out, by referring to the entry number, the line of which has an incorrect data.
  - (c) immediately after the error message is given on the screen, by referring to the original entry record to be corrected.
  - (d) before or at the time of report authorization, by giving the number of the entry which has the errors to be corrected.
  - (e) at a later time when the authorization has been completed, by using a 'correction-to' (chaining) procedure.

Note: The correction is carried out in the replacement procedure in the cases of (a), (b), (c) and (d) above.
- d. Book updating and material balance calculations are automatically carried out as well as the creation of correction reports for physical inventory listing (PIL) and material balance report (MBR) are done when the 'correction-to' procedure requires such creation.
- e. Reports can be provided if so requested. They include inventory change report (ICR), PIL, MBR, book inventory listing (BIL), a list of Nos. of reports stored in the data base, and a summary report in which the inventory is summed up at each inventory key measurement point (IKMP) and the flow of nuclear material is added up at each flow key measurement point (FKMP).
- f. In the procedure to open a computer session, it is shown that the accessibility to the computer is not restricted but that the accessibility to the FARMS is restricted to an authorized person who controls the system diskette.

Although the system has a function to save the files for the future use, such capability is not shown in this demonstration.

#### 4.5 Guide to a Demonstration Exercise

Before starting a computer demonstration, some basic matters should be

known on how to use the computer which the user is supposed to utilize during the demonstration session.

- (1) Don't touch the "STOP" key and "DEL" key. If the user touches it, the system returns its control to the operating system, MS-DOS, resulting in a loss of user's efforts unless the data are not reserved on the floppy diskette.
- (2) If the computer is reading in data from user's diskette (tiny lamp is on beside the slot), don't remove the diskette. Contents of a file stored on the diskette will be destroyed.
- (3) Don't delete every file on the diskette if the user can use MS-DOS commands. He will delete the operating system and the main and sub-programs of FARMS as well as the data files on it.
- (4) Every time the user wants to give a data as an input by keying it in or to give the data displayed on the screen with or without overwriting it, "RETURN" key should be pushed. If he wants to move the cursor backward, "↑" key should be used.

For this demonstration the following types of files are provided on the floppy diskette:

- a. System files
    - FARMS.DB3 dBASE-III compiled by dBASE-III-COMPILER
    - FARMS.EXE FARMS executable programs
    - FARMS.OVL FARMS overlay structure
  - b. Data base structure files
    - STR\_\*.DBF FARMS data base structure
  - c. Data base files
    - A\_\*.DBF FARMS data base generated during the course of data processing
  - d. MBA index files
    - A\_\*.NDX FARMS MBA index generated when the MBA is defined
- Note: If the user wants to initialize the floppy diskette, he has to execute the following MS-DOS command:
- DEL A\_\*.DBF

Normally the computer is waiting for user's access under a built-in operating circumstance if it is switched on. He puts a program/data diskette in the slot and pushes the reset key. The operating system is automatically read into the computer system from the diskette and starts to function: reading in the system programs and preparing the computing environment.

If this procedure is properly executed, the system will show the user the following figure for a few second:

```

$$$$$$$$$      $$      $$$$$$$$      $$      $$      $$$$$$$$$$
$$           $$  $$  $$$$      $$      $$$      $$$      $$$      $$$
$$           $$  $$  $$$      $$      $$$      $$$      $$$      $$$
$$$$$$$$$      $$  $$  $$$      $$      $$$      $$$      $$$      $$$
$$$$$$$$$      $$$  $$$  $$$      $$      $$$      $$$      $$$      $$$
$$$$           $$$  $$$  $$$      $$      $$$      $$$      $$$      $$$
$$$$           $$$  $$$  $$$      $$      $$$      $$$      $$$      $$$
$$$$           $$$  $$$  $$$      $$      $$$      $$$      $$$      $$$
$$$$           $$$  $$$  $$$      $$      $$$      $$$      $$$      $$$
$$$$           $$$  $$$  $$$      $$      $$$      $$$      $$$      $$$

```

Facility's Record and report  
 Model System .

Japan Atomic Energy Research Insutitute

Then it proceeds to the next screen:

```

*****
*          PIL FILE CREATE OPTION          *
*****
1 : KEY-IN PIL DATA
2 : AUTOMATICALLY CREATE PIL FILE

```

Here the user is expected to supply "2". Then the "RETURN" key should be pushed (this procedure is always necessary to allow the system to recognize the input data). The case "1" is for a bulk handling facility in which the physical inventory is established by measurements and normally differs from the book inventory. In case of the item handling facility as in this computer exercise, the physical inventory should be the same as the book inventory. Therefore the automatic creation procedure is preferable because the user do not need to feed the lengthy inventory listing to the system if he selects the case "2".

The FARMS menu screen follows:

```

*****
*          F A R M S   M E N U          *
*****
0. END
1. CREATE OR UPDATE IC FILE
2. CREATE OR UPDATE PI AND MB FILE
3. PRINT ICR, PIL OR MBR FILE
4. SUM UP BOOK INVENTORY AND INVENTORY CHANGES
5. DISPLAY A TABLE OF REPORTs NO.- PERIOD
6. AUTHORIZE IC REPORT(S)
7. PRINT BIL
8. FILE CONVERT dBASE-III TO ASCII
9. DESIGN INFORMATION
10. CORRECT IC FILE

```

SELECT No.

Since the design information has not yet been registered in the system due to its being at the initial data processing stage, the user has to select "9".

The system displays the following sub-menu:

```

*****
*                DESIGN INFORMATION                *
*****

0. RETURN TO FARMS MENU
1. DEFINE FACILITY
2. DEFINE MBA

SELECT NO.
    
```

First, the facility information should be given by selecting "1". Then the following facility-menu appears on the screen.

```

***** DEFINE FACILITY MENU *****

0. RETURN TO DESIGN INFORMATION MENU
1. CREATE
2. UPDATE
3. MBA DELETE
4. MBA APPEND
5. DISPLAY/PRINT

SELECT NO.
    
```

The selection should be "1". Then the system requires an input for facility related information as follows:

```

[ CREATE ]

***** INPUT FACILITY DEFINITION *****

                CODE          NAME
ORGANIZATION   [   ] [           ]
FACILITY       [   ] [           ]

EXIT WHEN CODE IS BLANK
    
```

The user should supply proper codes and names and, if a blank code is given to the system, it returns to the facility-menu. Selecting the option "0", it returns to the menu for design information.

The second input should be for defining an MBA structure. Selecting the option "2", the user will find an MBA definition menu on the screen as follow:

```

***** MBA DEFINITION MENU *****

0. RETURN TO DESIGN INFORMATION MENU
1. CREATE
2. UPDATE
3. DELETE
4. APPEND
5. DISPLAY/PRINT

: SELECT NO.
    
```

If the user selects "1" the system requires MBA data to be supplied as follows:

```

[ CREATE ]

**** INPUT MBA DEFINITION ****

1. MBACODE      MBA1
2. KMP          1
3. FROM KMP     MBO
4. TO KMP       A

( WHEN KMP IS IKMP ,
  'FROM KMP' AND 'TO KMP' SHOULD BE BLANK )

( EXIT WHEN MBACODE IS BLANK )

      ONE RECORD APPENDED
    
```

For each MBA, every KMP should be defined by a set of codes. If the user finishes the input, he should let the system return to the main menu by selecting a proper option. Then he will find the following menu again.

```

*****
*                                     *
*               F A R M S   M E N U   *
*                                     *
*****
    
```

0. END
1. CREATE OR UPDATE IC FILE
2. CREATE OR UPDATE PI AND MB FILE
3. PRINT ICR, PIL OR MBR FILE
4. SUM UP BOOK INVENTORY AND INVENTORY CHANGES
5. DISPLAY A TABLE OF REPORTS NO.- PERIOD
6. AUTHORIZE IC REPORT(S)
7. PRINT BIL
8. FILE CONVERT DBASE-III TO ASCII
9. DESIGN INFORMATION
10. CORRECT IC FILE

SELECT No.

Since there is no accounting data in the system, the selection should be "1". If the user inputs this number, the system requires the MBA code for the creation of the inventory change (IC) file for this MBA:

```

*****
*               C R E A T E   I C   F I L E   *
*               *                               *
*****
    
```

MBA CODE : MBA1

EXIT WHEN BLANK

Then the heading information of the first IC report is required as follows:

```

*****
*               I C   H E A D E R   I N F O R M A T I O N   *
*               *                               *
*****
ORGANIZATION CODE :ABCD |NAME :ORGANIZATION-1
FACILITY      CODE :EFGH |NAME :FACILITY-1
MBA           CODE :MBA1 |NAME :MBA-1
REPORT No.    :      1
ENTRY DATE    :      0
PERIOD (FROM) :      0 |(TO) :      0
NUMBER OF ENTRY : 0
SIGNATURE     :
              (EXIT WHEN ENTRY DATE IS '-1' )
    
```

Since the system automatically gives the data to a field for which the information has already been registered as the design information, the user do not need to put data in such a field. The report number is also provided by the system starting from 1 with automatically increasing its number by one in the reports followed.

When the user will have filled in necessary data, the system checks the data. If the system detects some errors, error messages are displayed on the screen and resubmitting the data is required. If there is no error, the system shows

```
':' IS EXIT ,':' IS RE-INPUT , '0' IS INPUT ENTRY
```

At this point, the user still has a chance to check the correctness of the input data. If he finds some errors, then he submits ":". If everything is OK, then he assigns "INPUT ENTRY" by giving "0".

If the user proceeds to the next, the system requires the IC entries as follows:

```
***** IC ENTRY INFORMATION [ REPORT No.= 1 ] *****
      DATE TYPE  KMP      NAME / MATE- .....ACCOUNTANCY DATA.....
ENTRY OF  OF    CODE     NUMBER / RIAL
      INVENT INVT .      OF      ELE- WEIGHT  UNIT  WEIGHT ISO  CORR-TO
      NO. CHANGE CHNG FROM TO  BATCH  DESC.MENT OF ELEMT.  OF F.I.CODE NO. NO.
-----
```

1

```
* ENTRY NO. : EXIT WHEN '-1' , ERROR CHECK WHEN '0'
*             RE-INPUT WHEN PREVIOUS ENTRY NO.
```

Here the entry number is automatically generated by the system up to the number given to the field of number of entries in the heading information. It is prohibited to give entries over this number at this input stage (while the tenth option in the main menu is used for this purpose). If the user wants to stop inputting, overwrite the entry number by "-1". Then the system automatically changes the number of entries in the heading information. The error checking is normally carried out when 12 entries have been given (screen-wise checking) or the input of all IC entries has been completed. At this point of time the system gives zero in the field of entry No.. Hit the return key, then the checking starts. Errors are displayed, if any, for entry by entry and the user can correct wrong data for such an entry. If, for example, the date of IC is not within the period given in the heading information, the system gives the user a chance to correct heading information. If the correction is completed, a new input for IC entries is requested, if appropriate, showing a new entry number.



Although a full set of data should be supplied to the first entry, a duplicated set of data are provided to the entries followed, except for the weight of element and the weight of fissile isotopes, as follows:

```

***** IC ENTRY INFORMATION [ REPORT No.= 1 ] *****
      DATE  TYPE  KMP      NAME / MATE-  ....ACCOUNTANCY  DATA.....
ENTRY  OF    OF      NUMBER / RIAL
NO.  CHANGE  CHNG  FROM TO  OF      ELE-  WEIGHT  UNIT  WEIGHT ISO  CORR-TO
      INVENT INVT                                DESC.MENT OF ELEMT.  OF F.I.CODE NO. NO.
-----
1  860110  RF  MBAO  A    1  AZ0001  BQ2F  E    401198.  G    13685.  G    0  0
2  860110  RF  MBAO  A    1  AZ0001  BQ2F  E           0.  G           0.  G    0  0
    
```

Therefore the user can supply only the data to be changed by overwriting.

If the user finds out some errors in the previous entry(entries), he can make a correction during the course of inputting or at the end of inputting by supplying that entry number and by giving a correct data to the wrong one (other data may be intact). This procedure may be illustrated as follows:

```

***** IC ENTRY INFORMATION [ REPORT No.= 1 ] *****
      DATE  TYPE  KMP      NAME / MATE-  ....ACCOUNTANCY  DATA.....
ENTRY  OF    OF      NUMBER / RIAL
NO.  CHANGE  CHNG  FROM TO  OF      ELE-  WEIGHT  UNIT  WEIGHT ISO  CORR-TO
      INVENT INVT                                DESC.MENT OF ELEMT.  OF F.I.CODE NO. NO.
-----
1  860110  RF  MBAO  A    1  AZ0001  BQ2F  E    401198.  G    13685.  G    0  0
2  860110  RF  MBAO  A    1  AZ0002  BQ2F  E    400252.  G    13643.  G    0  0
3  860110  RF  MBAO  A    1  AZ0003  BQ2F  E    400186.  G    13651.  G    0  0
4  860110  RF  MBAO  A    1  AZ0004  BQ2F  E     40183.  G    13638.  G    0  0
5  860110  RF  MBAO  A    1  AZ0005  BQ2F  E    400735.  G    13662.  G    0  0
4
    
```

When the system is checking the entries, the following message is shown on the screen. In this case the thirteenth entry is under the checking process.

```

*****
* ERROR CHECK *
*****
    
```

EXECUTING ENTRY NO. ... 13

An example of error which has been detected by the system is as follows:

ENTRY OF NO.	DATE OF CHANGE	TYPE OF INVT CHNG	KMP CODE FROM TO	NAME / NUMBER OF BATCH	MATE- RIAL	.....ACCOUNTANCY DATA.....	WEIGHT UNIT	WEIGHT ISO	REP ENT	CORR-TO
NO.	CHANGE	CHNG	FROM TO	BATCH	DESC.	ELE- MENT	OF ELEMNT.	OF F.I.	CODE NO.	NO.
13	860110	RF	MBAO A	1 AZ0012	BQ2F	E	400344.	G	13655.	G 0 0

ER016- SAME NAME OF BATCH APPEARS IN RECEIPT-ENTRY

PRESS ANY KEY

In this case the user has to correct only the batch name by moving the cursor to the position and giving a correct batch name.

If all entries are given to the system without errors, the system shows the header information and the entry data on the screen as follows:

```

*****
*          IC REPORT HEADER INFORMATION          *
*****
FACILITY CODE :EFGH |NAME :FACILITY-1
MBA CODE :MBA1 |NAME :MBA-1
REPORT No. : 1
ENTRY DATE :860131
PERIOD (FROM) :860101 |(TO) :860131
NUMBER OF ENTRY:13
SIGNATURE :NISHIMURA
    
```

PRESS ANY KEY

\*\*\*\*\* IC REPORT ENTRY INFORMATION [ REPORT No.= 1 ] \*\*\*\*\*

ENTRY OF NO.	DATE OF CHANGE	TYPE OF INVT CHNG	KMP CODE FROM TO	NAME / NUMBER OF BATCH	MATE- RIAL	.....ACCOUNTANCY DATA.....	WEIGHT UNIT	WEIGHT ISO	REP ENT	CORR-TO
NO.	CHANGE	CHNG	FROM TO	BATCH	DESC.	ELE- MENT	OF ELEMNT.	OF F.I.	CODE NO.	NO.
1	860110	RF	MBAO A	1 AZ0001	BQ2F	E	401198.	G	13685.	G 0 0
2	860110	RF	MBAO A	1 AZ0002	BQ2F	E	400252.	G	13643.	G 0 0
3	860110	RF	MBAO A	1 AZ0003	BQ2F	E	400186.	G	13651.	G 0 0
4	860110	RF	MBAO A	1 AZ0004	BQ2F	E	400183.	G	13638.	G 0 0
5	860110	RF	MBAO A	1 AZ0005	BQ2F	E	400735.	G	13662.	G 0 0
6	860110	RF	MBAO A	1 AZ0006	BQ2F	E	401966.	G	13680.	G 0 0
7	860110	RF	MBAO A	1 AZ0007	BQ2F	E	40125.	G	13669.	G 0 0
8	860110	RF	MBAO A	1 AZ0008	BQ2F	E	401178.	G	13647.	G 0 0
9	860110	RF	MBAO A	1 AZ0009	BQ2F	E	400985.	G	13636.	G 0 0
10	860110	RF	MBAO A	1 AZ0010	BQ2F	E	400924.	G	13650.	G 0 0
11	860110	RF	MBAO A	1 AZ0011	BQ2F	E	400970.	G	13625.	G 0 0
12	860110	RF	MBAO A	1 AZ0012	BQ2F	E	400344.	G	13655.	G 0 0

\*\*\*\*\* IC REPORT ENTRY INFORMATION [ REPORT No.= 1 ] \*\*\*\*\*

ENTRY OF NO.	DATE OF CHANGE	TYPE OF INVT CHNG	KMP CODE FROM TO	NAME / NUMBER OF BATCH	MATE- RIAL	.....ACCOUNTANCY DATA.....	WEIGHT UNIT	WEIGHT ISO	REP ENT	CORR-TO
NO.	CHANGE	CHNG	FROM TO	BATCH	DESC.	ELE- MENT	OF ELEMNT.	OF F.I.	CODE NO.	NO.
13	860110	RF	MBAO A	1 AZ0013	BQ2F	E	400344.	G	13655.	G 0 0

Here the user has a chance of checking his input data by going through these lists of header and entry data. He may find some errors in his input data. If that is the case, the system can provide him with another chance of correcting data. Let the system return to the main menu table and select the tenth option from the table. Responding to the questionnaire issued by the system, give the MBA code and the report number and select the option four, "CORRECT IC ENTRIES", from the correction menu. Then the inventory change entries are displayed on the screen. In this case, the weight of element in the seventh entry is incorrect. So give the number seven as follows:

```
***** IC REPORT ENTRY INFORMATION [ REPORT No.= 1 ] *****
```

ENTRY NO.	DATE OF CHANGE	TYPE OF INVT CHNG	KMP CODE FROM TO	NAME / NUMBER OF BATCH	MATE-RIAL	.....ACCOUNTANCY	DATA.....	CORR-TO
NO.	CHANGE	CHNG	FROM TO	BATCH	DESC.	ELE-WEIGHT OF ELEMENT.	UNIT WEIGHT ISO OF F.I.CODE	REP ENT NO. NO.
1	860110	RF	MBA0 A	1 AZ0001	BQ2F E	401198.	G 13685. G	0 0
2	860110	RF	MBA0 A	1 AZ0002	BQ2F E	400252.	G 13643. G	0 0
3	860110	RF	MBA0 A	1 AZ0003	BQ2F E	400186.	G 13651. G	0 0
4	860110	RF	MBA0 A	1 AZ0004	BQ2F E	400183.	G 13638. G	0 0
5	860110	RF	MBA0 A	1 AZ0005	BQ2F E	400735.	G 13662. G	0 0
6	860110	RF	MBA0 A	1 AZ0006	BQ2F E	401966.	G 13680. G	0 0
7	860110	RF	MBA0 A	1 AZ0007	BQ2F E	40125.	G 13669. G	0 0
8	860110	RF	MBA0 A	1 AZ0008	BQ2F E	401178.	G 13647. G	0 0
9	860110	RF	MBA0 A	1 AZ0009	BQ2F E	400985.	G 13636. G	0 0
10	860110	RF	MBA0 A	1 AZ0010	BQ2F E	400924.	G 13650. G	0 0
11	860110	RF	MBA0 A	1 AZ0011	BQ2F E	400970.	G 13625. G	0 0
12	860110	RF	MBA0 A	1 AZ0012	BQ2F E	400344.	G 13655. G	0 0

EXIT WHEN '-1', ADD ENTRY WHEN 'A', CORRECT ENTRY WHEN ENTRY NO. 7  
DELETE THE ENTRY WHEN 'D' INDICATED TO TYPE OF INVENTORY CHANGE

Then the cursor goes to the seventh entry. Move the cursor to the field of weight of element and overwrite it changing the value from 40125 to 400125. If the change is completed, the cursor goes to the line next to the last entry and the system waits an input. If there is no error data, give "-1". The next procedure to be done is to select the option two, "CHECK REPORT", and to carry out the checking of the entry.

If the user finds another error to the input data at a later time, but before the authorization, he can make a correction selecting the tenth option from the main menu table as mentioned above. Using this option he can add an entry by inserting "A" in the field of entry No. and delete one by inserting "D" in the field of type of inventory change. In these cases the number of entries in the heading information is automatically changed by the system and, if an entry is deleted, the entry numbers of the succeeding entries are automatically changed. If the correction has been completed the user has to carry out the error checking in the same manner as above.

If the user cannot do the correction to the error data detected by the system for the moment, he can postpone it, but he must do it at a later time. He can easily recognize such an error entry if he chooses "DISPLAY REPORT" in the correction menu because it is displayed in a different color.

If the user wants to proceed further, he can do so by selecting one of the jobs listed in the main menu table. In the model operation of the model facility, the next step is to authorize the first report and then to input the second IC report followed by the authorization of the second report and so on. These procedures are not difficult to proceed. The user can easily continue the exercise according to the instructions given to him on the screen.

If the user wants to finish the exercise and to close the session, select the option "0" in the main job menu. Then the operating system, MS-DOS, takes over the control from the FARMS system. It should be noted that if the user goes out of the model record and report system all files he created are saved for further use in this demonstration version of the system.

## 5. Discussion

### 5.1 Applicability of FARMS

Applicability of this demonstration system to a real plant should be discussed first. In general, computing time is expected to increase if the amount of data handled by the system increases. 620 records were treated as an example for testing the system's ability, and the result showed that the computing time per record was not changed even if a lot of data were accumulated. This may be natural because the system has many index files as described in the sub-section 3.5. A time required for the entry of 99 records was around 35 minutes including 25 minutes for inputting. During the processing of these records, data were checked and registered for every 12 records with one minute for waiting each time. When a floppy disk was used instead of the RAM disk, however, the total time for 99 entries was about 52 minutes with an increase of 14 minutes for waiting time. Based on these results, it is evaluated that the system is applicable if the RAM disk is installed and used.

### 5.2 Interface with an Audit System

The current practice of manual audits would not be desirable because it requires much man-power and because the audit could not be thorough. Therefore the audit system needs to be computerized. As for establishing the interface between FARMS and the audit system, there are two scenarios. One is to assume that an audit of records and reports by the national or international authority is carried out by inspector's direct access to the data base using a function of the audit system. In order to realize such an audit, a problem of authentication should be solved. The other is, avoiding this problem, to assume that the operator makes a copy of the contents of the data base on a cassette or on a floppy disk and that the inspector uses this cassette or floppy disk to check the records and reports independently by means of his computer and his system which might be similar to the operator's system. In this case, cost for an additional computer for the inspector's use should be borne by the authority. A model audit system, R.AUDIT [4], was developed in line with the latter concept using dBASE-III and its query language and the same type of PC as FARMS runs on. As an interface, FARMS can provide the audit system with ASCII type files over all data base files regarding the accounting.

### 5.3 Extension to a Bulk Facility

In a bulk handling facility such as a plutonium fuel fabrication plant and a reprocessing plant, there are material balance areas (MBAs) more than

one in general. Batch identity is not maintained especially in the process area and normally the input to and the output from the process area are measured. Physical inventory in the process is also measured and, in general, it differs from the book inventory calculated as the difference between the total input and the total output creating a MUF, material unaccounted for. Therefore the system should be able to treat with multiple MBAs and with physical inventories as well as inputs and outputs. These fundamental requirements have been incorporated in FARMS by defining different files for each MBA and by setting up a routine which reads in physical inventories.

Another requirement is to have capabilities of handling every measurement data such as weighing and analyses, consolidating these data into weight of element and weight of fissile isotopes, estimating measurement errors, analyzing MUF values and of preparing a report on the basis of the internationally established key measurement points which may cover several internally defined key measurement points. Coping with this requirement needs more computer memories and more computing abilities than the personal computer (PC) used in the demonstration has. As a matter of fact the bulk facility information system was successfully constructed on a mini-computer basis by adding a reporting function to the PROMAC-C system [6]. If a PC based system is necessities, an advanced PC would make it possible to run such information system.

#### 5.4 Flagging and Tracking

If nuclear material is transferred from abroad, it should be controlled in accordance with the obligation defined in the agreement between the state and a country from which the nuclear material is exported. If the obligation is simply to control the origin of nuclear material, it may be satisfactory to provide the origin code as a data element in an inventory change entry as well as in the ICR and PIL entries. However, if the obligation is to control the situation of nuclear material such as "transferred", "produced through the use of nuclear material, material, equipment or component transferred" and "used in nuclear material, material, equipment or component transferred", an additional data base file may be needed for handling such situation data.

The authors have developed a flagging and tracking system for an extended origin control of nuclear material on the basis of the Japan - United States Agreement as a different version of FARMS [8]. It was made clear that the system can be constructed on the PC basis.

## 6. Concluding Remarks

An automated record and report system at the facility level has been constructed by standardizing the system requirements and system functions and by computerizing them. Using a personal computer, the system can be fully utilized as a base system for material accounting and control at an item handling facility and can help computerize the book audit procedure for safeguards purposes. Although an extension of the system for a bulk handling facility has been limited to a few fundamental functions in the demonstration version of FARMS which is described in this report, pending the inclusion of a measurement control function and of a MUF evaluation routine, the full extension may be possible if an advanced, powerful PC is introduced for the system. In order to apply FARMS to a real plant, further improvement of the system may be necessary. An attempt to include a flagging and tracking system in FARMS showed that such improvement is not difficult even if the current generation PC is used as a base computer.

The system has many features, some of which are summarized as follows:

- (1) Using the FARMS-like system at a facility makes it easier for the safeguards authority to develop a computerized audit procedure, enabling the inspectors to carry out book audits more simply and more thoroughly.
- (2) FARMS requires minimum amounts of data as an input in a convenient manner, reducing man-power for data handling and decreasing a possibility of making clerical errors.
- (3) By the quality control (QC) procedure for nuclear material accounting data, FARMS can improve the quality of records. This QC procedure would be enhanced if more data checking functions are added to the system on the basis of the experiences to be obtained by the data handling.
- (4) The record authorization scheme adopted in FARMS would further improve the quality of records and prevent one from changing or deleting records intentionally or mistakenly, while this mechanism still keeps it possible to manipulate records freely before the authorization is granted.
- (5) The system updates the book inventory at a time when inventory change data are given to the system, and produces reports at any time if so requested.
- (6) The system as one for an item handling facility is rather simple, but important not only for a safe, reliable, smooth and efficient plant operation but also for the verification purposes. By making an access to the system, an inspector can collect element and isotopic composition data as well as burnup data for the verification of the nuclear material content in a batch. In the case of a reactor he can compare these data with the input quantity to the process of a reprocessing plant.

- (7) The computer system used in FARMS is not expensive and can be utilized for purposes other than material accounting. Since a commercially available data base management system was used, a modification of the system including an extension of the data base files would be easy.
- (8) A demonstration of the system in a model facility where itemized nuclear materials are handled, as described in the section 4, shows that it is beneficial for a facility to have such a computerized standard record and report system as FARMS.

#### Acknowledgment

The authors are grateful for valuable comments and suggestions of all participants who took part in the first and the second Regional SSAC Training Courses held at Tokai and Tokyo, Japan, in 1985 and 1987 and, at those occasions, had a computer exercise using FARMS.

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Table 1 Explanation of procedures used in the record and report system

<u>Module Name</u>	<u>Reference Procedure</u>	<u>Function</u>
FLICR		Inventory change (IC) file is generated or updated, and physical inventory listing (PIL) and material balance report (MBR) are corrected, if appropriate.
	REDICR	IC entries are read in.
	SORTBI	Book inventory (BI) file is sorted.
FLPIMB		PIL and MBR are generated or updated.
	REDPIL	PIL entries are read in.
	CHKPIL	Error check of the PIL entries
	CORRPIL	PIL entries are corrected.
	PILFL	PIL file is generated or updated on the basis of the IC file.
	MBRFL CORMBR	MBR file is generated or updated. MBR file is updated by means of the 'correction-to' entries in the PIL.
PRINT		Outputs of the contents of reports on the files are arranged and given on the CRT or on the line printer. IC and inventory change report (ICR) are provided on the line printer.
	PILPRT	PILs are provided on the line printer.
	MBRPRT	MBRs are provided on the line printer.
	ICRCRT	A list of ICs or an ICR is provided on the CRT.
	PILCRT	A PIL is provided on the CRT.
	MBRCRT	An MBR is provided on the CRT.
IOLIST		ICs during a given period and the beginning and ending inventories of that period are listed as an output.
	IOPRT	A list of ICs is provided on the line printer.
	IOPRT2	A list of ICs is provided on the CRT.
	BOOK1	A book inventory is generated on the basis of the nearest physical inventory to a given date.
	BOOK2	The book inventory which has been generated by BOOK1 routine is updated up to a given date on the basis of the IC file.
	BIPRT BIPRT2	A list of BIs is provided on the line printer. A list of BIs is provided on the CRT.
FLTABLE		A table of report Nos. and periods covered by reports for each file of IC, ICR, PIL and MBR is provided on the CRT.
AUTHICR		IC file is authorized and ICR file is generated or updated. PIL and MBR files are corrected corresponding to the correction of authorized ICs by means of 'correction-to' entries.

Table 1 (continued)

<u>Module Name</u>	<u>Reference Procedure</u>	<u>Function</u>
	DSPICR	ICs are displayed on the CRT.
PRBOOK		BI is provided on the line printer.
CONVT		Header, IC, ICR, PIL and MBR files are converted to an ASCII file.
FACLT		Facility file is generated and displayed.
	FACCRE	Facility file is generated.
	FACDSP	Facility information is displayed on the CRT.
MBA		MBA file is generated or updated and displayed.
	MBADEF	MBA file is generated or updated.
	MBADSP	MBA information is displayed on the CRT.
CRHEAD		IC file is updated.
	DSPICR	ICs are displayed on the CRT.
	ALLCHK	Error check of ICs is carried out.
	CORHED	IC header is corrected.
	CORRICR	IC entries are corrected.
CHKICR		Error check of an IC entry
	CORHED	IC header is corrected if there is an inconsistency between IC header and IC entries.
	CORRBI	Effect on the BI of an entry with errors is removed when the entry is corrected.
	UPDTBI	BI file is updated if an error-free IC entry is given.
ALLCHK		Error check is carried out for an IC entry with error flag.
	CHKICR	Error check of an IC entry.
	SORTBI	BI file is sorted.
CORRICR		IC entries are corrected.
	CORRBI	Effect on the BI of an entry with errors is removed when the entry is corrected.

Table 2 Input questionnaire in the model record and report system

Part 1 : General and Design Information

<u>Information/Question issued by the System</u>	<u>Input Type</u>	<u>Explanation and Input Data</u>
<p>**** PIL FILE CREATE OPTION ****</p> <p>1: KEY-IN PIL DATA</p> <p>2: AUTOMATICALLY CREATE PIL FILE</p> <p>SELECT NO.</p>	I1	Select one of the numbers given in the left column and key in that number.
<p>**** FARMS MENU ****</p> <p>0: END</p> <p>1: CREATE OR UPDATE IC FILE</p> <p>2: CREATE OR UPDATE PI AND MB FILES</p> <p>3: PRINT ICR, PIL OR MBR FILE</p> <p>4: SUM UP BOOK INVENTORY AND INVENTORY CHANGES</p> <p>5: DISPLAY A TABLE OF REPORTS NO. - PERIOD</p> <p>6: AUTHORIZE IC REPORT(S)</p> <p>7: PRINT BIL</p> <p>8: FILE CONVERT dBASE-III TO ASCII</p> <p>9: DESIGN INFORMATION</p> <p>10: CORRECT IC FILE</p> <p>SELECT NO.</p>	I1	Select one of the numbers given in the left column and key in that number, where - IC means inventory change, - PI physical inventory, - MB material balance, - ICR inventory change report, - PIL physical inventory listing, - MBR material balance report, and - BIL is book inventory listing.
<p>**** AUTHORIZATION MENU ****</p> <p>0. SELECT ANOTHER REPORT</p> <p>1. DISPLAY REPORT</p> <p>2. AUTHORIZE</p> <p>SELECT NO.</p>	I1	Select one of the numbers given in the left column and key in that number.
<p>**** CORRECTION MENU ****</p> <p>0. SELECT ANOTHER REPORT</p> <p>1. DISPLAY REPORT</p> <p>2. CHECK REPORT</p> <p>3. CORRECT IC HEADER (DATE/PERIOD)</p> <p>4. CORRECT IC ENTRIES</p> <p>SELECT NO.</p>	I1	Select one of the numbers given in the left column and key in that number.
<p>**** DESIGN INFORMATION MENU ****</p> <p>0. RETURN TO FARMS MENU</p> <p>1. DEFINE FACILITY</p> <p>2. DEFINE MBA</p> <p>SELECT NO.</p>	I1	Select one of the numbers given in the left column and key in that number.

Table 2 (continued)

<u>Information/Question issued by the System</u>	<u>Input Type</u>	<u>Explanation and Input Data</u>
<p>**** DEFINE FACILITY MENU ****</p> <p>0: RETURN TO DESIGN INFORMATION MENU</p> <p>1: CREATE</p> <p>2: UPDATE</p> <p>3: DELETE MBA</p> <p>4: APPEND MBA</p> <p>5: DISPLAY/PRINT</p> <p>SELECT NO.</p>	I1	Select one of the numbers given in the left column and key in that number.
<p>**** MBA DEFINITION MENU ****</p> <p>0: RETURN TO DESIGN INFORMATION MENU</p> <p>1: CREATE</p> <p>2: UPDATE</p> <p>3: DELETE</p> <p>4: APPEND</p> <p>5: DISPLAY/PRINT</p> <p>SELECT NO.</p>	I1	Select one of the numbers given in the left column and key in that number.
<p>**** INPUT FACILITY DEFINITION ****</p> <p>1. ORGANIZATION CODE</p> <p>2. ORGANIZATION NAME</p> <p>3. FACILITY CODE</p> <p>4. FACILITY NAME</p> <p>5. MBA CODE</p> <p>6. MBA NAME</p>	A4 A20 A4 A20 A4 A20	e. g., ORG1 e. g., ORGANIZATION NO. 1 e. g., FAC1 e. g., FACILITY NO. 1 e. g., MBA1 e. g., MBA NO. 1
<p>**** INPUT MBA DEFINITION ****</p> <p>1. MBA CODE</p> <p>2. KMP</p> <p>3. FROM KMP/MBA</p> <p>4. TO KMP/MBA</p>	A4 A1 A4 A4	e. g., MBA1 e. g., 1 e. g., MBA0 e. g., A
		Note: If KMP is an inventory KMP (IKMP) the items 3 and 4 should be left blank.

Table 2 (continued)

Part 2 : Single Question for which an answer should be given without any preceding spaces

Alphabetical Index	Questions issued by the System	Input Type	Explanation and Input Data
C	CORRECT ANY ENTRIES ? (Y/N)	A1	Are there any entries to be corrected ? If yes, Y. If no, N.
I	IC REPORT NO. THAT CAN BE AUTHORIZED: n1 n2 ... SELECT REPORT NO.	I2	If an IC report is to be authorized, give the report number.
L	LIST MENU 0: END 1: IC 2: ICR 3: PIL 4: MBR SELECT NO.	I1	For printout, select the type of report by number. If no report is needed, give 0.
M	MBA CODE :	A4	Give the relevant MBA code.
N	NUMBER OF ENTRIES	I2	Give the number of entries to be corrected.
P	PENDING WHEN '-1' TO ENTRY NO.	I2	The error correction is pending if given '-1' to the entry No.
	PRINT THE BOOK INVENTORY ? (0/1: NO/YES)	I1	If an updated book inventory is to be provided, give 1, otherwise give 0.
R	REPORT NO. IN FILE = n1 n2... REPORT NO.	I2	There are such reports as numbered n1, n2, etc. in the file. Select one report No. for listing.
S	SCREEN OR PRINTER ? (S/P)	A1	Option for an output. S: screen; P: printer.
T	THE LIST OF IC ENTRIES ON CRT ? (0/1: NO/YES)	I1	Option for the printout of IC report on the screen. If the output is needed, give 1, otherwise give 0.



Table 2 (continued)

Part 3 : Heading Information with Fixed Format where input data should be given just after the column ':' without any preceding spaces in case of character type input

<u>Key Word given by the system</u>	<u>Input Type</u>	<u>Explanation and Input Data</u>
ENTRY DATE	I6	Give today's date in year-month-day (YYMMDD), e. g., 850315.
PERIOD FROM, TO	2I6	Dates should be given in year-month-day (YYMMDD), e. g., 850315. The period may cover only one day of inventory changes or may cover for example one month. Overlapping period exceeding one day is prohibited in this system.
NUMBER OF ENTRIES	I2	Total number of entries in a report, each of which is to be fed into the system, should be given (up to 99). Actual number of entries cannot exceed this number but smaller number is permitted with this number being adjusted. (Additional entries are permitted when the tenth option in the FARMS menu is selected.)
SIGNATURE	A20	Give the name of responsible person.

Part 4 : Inventory Change Entry (or Physical Inventory Listing) with Fixed Format where input data should be given just under the dashed line, without any preceding spaces in case of character type input, and the first entry requires full input, supplying only changed data at the following entries

<u>Key Word given by the system</u>	<u>Input Type</u>	<u>Explanation and Input Data</u>
DATE OF INVT CHANGE	I6	Date of inventory change should be given in year-month-day (YYMMDD), e. g., 850315.
TYPE OF INVT CHNG	A2	Type of inventory change should be given using a code. As for the IC codes, see Table 2.
KMP CODE	2A4, A1	If an item of nuclear material is transferred from an IKMP to another IKMP through the boundary FKMP, give only FKMP code. However, in case of receipt, FROM-IKMP code should be the MBA code of the shipper. In case of shipment, TO-IKMP code should be the MBA code of the receiver. If it is a burnup entry which is given at the time of fuel discharge from the core, FKMP code should be that of the boundary FKMP between the reactor and the spent fuel pond.

Table 2 (continued)

<u>Key Word given by the system</u>	<u>Input Type</u>	<u>Explanation and Input Data</u>
NAME/NUMBER OF BATCH	A8	Number of characters for batch name should be less than or equal to 8. Do not leave a blank preceding the first character.
MATERIAL DESC.	4A1	Nuclear material should be described using four codes. These codes are given in Table 4.
ELEMENT	A1	<p>Following codes should be given for elements:</p> <ul style="list-style-type: none"> <li>- D for depleted uranium,</li> <li>- N for natural uranium,</li> <li>- E for enriched uranium,</li> <li>- U for unified uranium,</li> <li>- P for plutonium, and</li> <li>- T for thorium.</li> </ul> <p>If in a given MBA the code for unified uranium (U) is used, it replaces codes D, N and E, which may not be used. In a case of category change, the higher category (E&gt;N&gt;D) should be assigned.</p>
WEIGHT OF ELEMENT	F8.0	<p>Give the weight of element in the unit specified below:</p> <ul style="list-style-type: none"> <li>- grams of enriched uranium, unified uranium and plutonium;</li> <li>- kilograms of natural uranium, depleted uranium and thorium.</li> </ul> <p>If a batch, which has the same batch name, element code and isotope code as the entry, has already been registered in the system, the data for weight of element, unit and weight of fissile isotopes are not needed except for the cases of nuclear loss (LN) and nuclear production (NP).</p>
UNIT	A1	<p>Unit for weight of element should be given as follows:</p> <ul style="list-style-type: none"> <li>- G for grams; and</li> <li>- K for kilograms.</li> </ul>
WEIGHT OF F. I.	F8.0	Weight of fissile isotopes should be given in the unit of gram if the element code is E, U or P. Otherwise it should be left blank.
ISO. CODE	A1	<p>Isotope code should be given as follows:</p> <ul style="list-style-type: none"> <li>- G for fissile isotope content of U235 only;</li> <li>- J for fissile isotope content of U233 plus U235; and</li> <li>- K for fissile isotope content of U233 only;</li> <li>- blank for other cases.</li> </ul>

Table 2 (continued)

<u>Key Word given by the system</u>	<u>Input Type</u>	<u>Explanation and Input Data</u>
CORR-TO REP NO. ENTR	2I2	If the entry is for an IC data correction by the chaining procedure, give the original report No. and entry No..

Part 5 : PI and MB files' Creation or Updating for which the fixed format is used

<u>Key Word given by the system</u>	<u>Input Type</u>	<u>Explanation and Input Data</u>
ENTRY DATE	I6	Give today's date in year-month-day (YYMMDD), e. g., 850315.
PIT DATE	I6	The date of physical inventory taking should be given in year-month-day (YYMMDD), e. g., 850315.
SIGNATURE	A20	Name of responsible person should be given.

Part 6 : Inventory and Inventory Change Summary for which the fixed format is used.

<u>Key Word given by the system</u>	<u>Input Type</u>	<u>Explanation and Input Data</u>
PERIOD FROM TO (0 IF END)	2I6	If a list of beginning inventory, ending inventory and inventory changes during the period is to be provided, give a period to be covered by the list in a couple of year-month-days (YYMMDD), e. g., 850301 850315. If no list is required, give zeros.

Table 3 Type of inventory change

<u>Keyword</u>	<u>Code</u>	<u>Explanation</u>
Receipt foreign	RF	Nuclear material imported into the MBA
Receipt domestic	RD	Domestic receipt of nuclear material from another MBA
Receipt at starting point	RS	Domestic receipt of nuclear material at starting point of safeguards pursuant to Paragraph 34(c) of INFCIRC/153 [10]
Receipt from non-safeguarded activity	RN	Domestic receipt of nuclear material from non-safeguarded (permitted military) activity
Nuclear production	NP	Production of special fissionable material in a reactor (Pu, U233)
De-exemption, use	DU	Reapplication of safeguards on nuclear material previously exempted therefrom pursuant to Paragraph 36 of INFCIRC/153
De-exemption, quantity	DQ	Reapplication of safeguards on nuclear material previously exempted therefrom pursuant to Paragraph 37 of INFCIRC/153
Shipment foreign	SF	Nuclear material exported out of the MBA
Shipment domestic	SD	Domestic transfer of nuclear material to another MBA
Return to pre-safeguarded stage	SS	Transfer of safeguarded nuclear material back to pre-safeguarded stage
Shipment to non-safeguarded activity	SN	Domestic transfer of nuclear material to non-safeguarded (permitted military) activity
Nuclear loss	LN	Consumption of nuclear material due to its transformation into other element(s) or isotope(s) as a result of nuclear reactions
Measured discard	LD	Operational loss - loss of a measured or estimated (on the basis of measurement) quantity of nuclear material from processing which has been disposed of in such a way that it is not suitable for further nuclear use
Transfer to retained waste	TW	Transfer to the retained waste category of measured nuclear material which is deemed to be irrecoverable, to be stored at the MBA and to be deleted from the inventory of the MBA
Retransfer from retained waste	FW	Retransfer of material, which had been stored at the MBA as retained waste, to the nuclear material

Table 3 (continued)

<u>Keyword</u>	<u>Code</u>	<u>Explanation</u>
		inventory. This applies whenever material in the retained waste category is removed from storage either for processing at the MBA or for shipment from the MBA
Exemption, use	EU	Exemption of nuclear material from safeguards pursuant to Paragraph 36 of INFCIRC/153
Exemption, quantity	EQ	Exemption of nuclear material from safeguards pursuant to Paragraph 37 of INFCIRC/153
Termination, non-nuclear use	TU	Termination of safeguards on nuclear material pursuant to Paragraph 13 and 35(b) of INFCIRC/153
Accidental loss	LA	Irretrievable and inadvertent loss of a known quantity of nuclear material as the result of an operational accident
Accidental gain	GA	Nuclear material unexpectedly found to be present in the MBA, except when detected at physical inventory taking
Shipper/receiver difference (SRD)	DI	The difference between the quantity of nuclear material reported as received (always on shipper's data) and the quantity as measured by the operator of the receiving MBA
Decrease in batch content	RM	The quantity by which the batch mentioned in the entry is diminished
Increase in batch content	RP	The quantity of material added to the batch mentioned in the entry from another batch
Category changes	EN	Category change from enriched uranium to natural uranium
	ED	Category change from enriched uranium to depleted uranium
	NE	Category change from natural uranium to enriched uranium
	DN	Category change from depleted uranium to natural uranium
	DE	Category change from depleted uranium to enriched uranium
	ND	Category change from natural uranium to depleted uranium
Transfer within facility	TR	Transfer between two inventory key measurement points, without any inventory changes but with changes of locations. This is one of facility-oriented 'type of inventory change'.

Table 4 Material description

Keyword 1 - Physical form

<u>keyword</u>	<u>Explanation</u>	<u>Code</u>
Fuel elements	Complete fuel elements - i.e. assemblies, bundles - for a given reactor system	B
Fuel components	Components of fuel elements - i.e. pins, plates	D
Powders	Powders (non-ceramic) - any powdered material other than ceramic grade oxides and carbides	F
Powder, ceramic	Powders, ceramic grade. High-fired oxide or carbide specially prepared for ceramic fuel manufacture	G
Formed, green	Green pellets and particles, formed by pressing or granulating mixtures of ceramic grade powder with a binder, before sintering	H
Ceramics	Ceramic pellets and particles: as above, after debonding and sintering	J
Coated particles	Coated particles - ceramic particles which have been given a protective coating - e.g. SiC	K
Solids, other	Solid materials other than those specified above - e.g. ingots, billets, extrusions, pieces - <u>1/</u> but <u>not mixed materials</u> <u>2/</u>	O
Liquids	Aqueous solutions, organic or other liquids	N
Residues/scrap	Residues and scrap arising from production process which will be recycled or recovered	R
Sealed sources	Sources of radiation consisting of permanently encapsulated fissile materials	QS <u>3/</u>
Waste, solid	Solid wastes intended for disposal	T
Waste, liquid	Liquid wastes intended for disposal	U
Small samples, specimens	Analytical samples or specimens, collected <u>4/</u> together into a single batch	V

Notes:

- 1/ UF<sub>6</sub> (hex) should be included in this category.  
2/ Mixed solid materials will normally appear in categories R and T.  
3/ Use no second keyword.  
4/ Small samples stored as a single batch should be coded VOAE or VOAM, regardless of chemical form and quality. Standards for quality control or NDA stored as a single batch should be coded VOAB.

Table 4 (continued)

Keyword 2 - Chemical form

<u>keyword</u>	<u>Explanation</u>	<u>Code</u>
Elemental	Unalloyed metal	D
Fluoride	Fluoride (other than hex)	E
Hex	Hexafluoride	G
Nitrate		J
ADU	Ammonium diuranate	K
Dioxide		Q
Trioxide		T
Oxide (3/8)	Oxide with formula $M_3O_8$	U
Other oxides	Other oxides, including mixtures <u>1/</u>	R
Oxides, poisoned	Oxides or oxide combinations containing nuclear poison	V
Carbide		W
Oxide/graphite	Oxide/graphite mixtures, e. g. HTR fuels	X
Carbide/graphite	Carbide/graphite mixtures, e. g. HTR fuels	Y
Nitride		Z
Organic		1
Other compounds	Other compounds, salts and their mixtures	2
Al alloys	Aluminium alloy, including Al/Si	3
Si alloys	Silicon alloy, silicide	4
Zr alloys	Zirconium alloys	5
Mo & Ti alloys	Binary and ternary alloys with Mo and Ti	6
Other alloys		7
Miscellaneous	Material of various chemical form collected together into a single batch (analytical samples and specimens)	0

Note:1/ This means mixtures of different oxides of the same element.

Table 4 (continued)

Keyword 3 - Containment

<u>keyword</u>	<u>Explanation</u>	<u>Code</u>
Uncontained	Material not in container; free standing items <u>1/</u> (including fuel elements and components, if uncrated)	1
Fuel units	Discrete fuel units and components, in shipping or storage containers	2
Flask	Shielded flasks for irradiated fuel and other highly active material	3
In-core	Reactor, in-core (fuel elements only)	4
Vessel, cal.	Process vessels and tanks, calibrated	5
Vessel, uncal.	Process vessels and tanks, uncalibrated; pipes	6
Tray	Open trays, racks, skips	7
Birdcage	Special, critically safe container	8
	<u>Storage containers classified by volume: -</u>	<u>2/</u>
"Container", and given volume range	Sample bottles and other small containers	<0.5 l A
	Bottles, fibrepacks, cans	0.5-1 l E
	Bottles, fibrepacks, cans	>1-5 l G
	Bottles, fibrepacks, cans, UF <sub>6</sub> cylinder	>5-10 l H
	Fibrepacks, cans	>10-15 l J
	Fibrepacks, drums	>15-20 l K
	Drums	>20-50 l L
	Drums	>50-100 l M
	Drums, barrels	>100-200 l N
	Drums, barrels	>200-500 l Q
	UF <sub>6</sub> cylinders	2 t >500-1,000 l R
UF <sub>6</sub> cylinders	10, 14 t >1,000-5,000 l U	
Larger containers, e. g., tank trucks	>5,000 l V	
Other containers		0

Notes:

- 1/ Include the uncontained irradiated fuel in cooling ponds in this category.
- 2/ Container types are indications only. The overriding classification is volume.



Table 4 (continued)

## Keyword 4 - Irradiation status/quality

<u>Keyword</u>	<u>Explanation</u>	Code <u>1/</u>	
		<u>Non-Irrad.</u>	<u>Irrad.</u>
	<u>Fuel only - irradiation status</u>		
Fresh fuel	Fresh fuel elements or assemblies	F	-
Irrad. fuel	Irradiated fuel, prior to reprocessing	-	G
	<u>Quality/irradiation status, other materials</u> <u>2/</u>		
Manufactured	Manufactured articles (other than complete fuel elements) for which no sampling is possible, but which are suitable for non-destructive measurement	A	H
Pure, stable	Homogeneous materials which have been produced to a tight specification governing purity and stability of both physical and chemical form (e.g. product, intermediate product, certain feed materials)	B	J
Pure	Materials which conform to a high purity specification which may be slightly heterogeneous or less stable than above (e.g. certain intermediate products, clean scrap and recycle; feed materials)	<u>3/</u> C	K
Heterogeneous	Heterogeneous materials of generally similar composition which do not conform to purity specifications (e.g. most scrap and recycle)	D	L
Variable composition	Heterogeneous materials of variable and/or mixed composition, possibly low in nuclear material content (e.g. dirty scrap, leached hulls, waste)	E	M

Notes:

- 1/ Select only one character, according to irradiation status.
- 2/ In this context the term "irradiated" refers to material from which the fission products formed during reactor irradiation have not been separated.
- 3/ Dissolver solution should be placed in this category, using the appropriate code to indicate irradiated material.

Table 5 Measurement basis

<u>Keyword</u>	<u>Code</u>	<u>Explanation</u>
Measured	M	The batch data are based on measurements made at the MBA, including KMPs on its boundary.
Measured elsewhere	N	The batch data are based on measurements made at another MBA.
Tagged	T	The batch data are based on measurements previously made at the same MBA and have been reported for that MBA in an ICR or PIL and the measurements have not been repeated.
Labelled	L	The batch data are based on measurements previously made at another MBA and have been reported for the present MBA in an ICR or PIL without measurement.

Table 6 Entry name for material balance report

<u>Keyword</u>	<u>Code</u>	<u>Explanation</u>
Beginning physical inventory	PB	Beginning physical inventory should be equal to the ending physical inventory of the previous report relating to the same category of material.
Inventory changes: for keywords and codes relating to various types of inventory change see Table 3 of these explanations		For each type of inventory change, as applicable for the MBA in question, one consolidated entry should be made for the entire reporting period: list first increases in the inventory and then decreases therein; receipts of nuclear material at the facility should be entered on shipper's data.
Ending book <u>1/</u> inventory	BE	This should be the algebraic sum of the beginning physical inventory and the inventory changes, not including any rounding adjustments reported in the MBR.
S/R D	DI	One consolidated entry should be made for all shipper/receiver differences over the entire reporting period, if applicable.
Adjusted ending book inventory	BA	Ending book inventory (adjusted for S/R D, if applicable)
Ending physical inventory	PE	The sum of all measured and derived batch quantities of nuclear material on hand on the date of the physical inventory taking

Note: 1/ This entry is optional.

Table 6 (continued)

<u>Keyword</u>	<u>Code</u>	<u>Explanation</u>
MUF	MF	Material unaccounted for - should be calculated as the difference between adjusted ending book inventory and physical inventory.
Rounding adjustment to ...	RA	Quantity that has to be added to the rounded sum to make it equal to the sum of the rounded terms. A rounding adjustment is made to an entry in the MBR (each inventory change category, shipper/receiver difference and ending physical inventory), in order to bring it to agree with the corresponding figure established on the basis of ICRs and PILs. In the case of ending book inventory, adjusted ending book inventory and MUF the following formulae should be used respectively:

$$RA \text{ to BE} = PB + \sum IC_{MBR} - BE$$

$$RA \text{ to BA} = PB + \sum IC_{MBR} - DI - BA$$

$$RA \text{ to MF} = BA - PE - MF$$

where  $IC_{MBR}$  represents a consolidated inventory change category reported in the MBR, taken with a minus sign if it represents a decrease. All other notations are as defined in this table. No rounding adjustment is needed for the beginning physical inventory.

The rounding adjustment should be coded RAXX, where XX stands for the code of the entry to which the rounding adjustment pertains, e. g. RALN means a rounding adjustment to the entry on nuclear loss.

Table-7 Error messages issued by the model record and report system

<u>No.</u>	<u>Error Message</u>	<u>Data Type</u>	<u>Explanation and Input Data</u>
ER010	'FROM (or PIT)' DATE IS BEFORE THE LAST DATE OF REPORT.	I6	Beginning date of the period or PIT date should be the last date covered by the previous report or a later date than that date. Give a correct date. If events to be reported belong to the period covered by the previous report, use a correction procedure (addition).
ER011	'TO' DATE IS BEFORE THE LAST DATE OF REPORT.	I6	Ending date of the period should be the last date covered by the previous report or a later date than that date.
ER012	'FROM' DATE IS AFTER 'TO' DATE.	2I6	Beginning date of the period should be a date earlier than the ending date or the same date.
ER014	ENTRY DATE IS BEFORE THE PERIOD.	I6	The date of IC data input should be a date later than, or the same as, the end date of the period.
ER015	NUMBER OF ENTRY IS 0.	I2	The number of entries given in the input for heading should not be 0.
ER016	SAME NAME OF BATCH APPEARS IN RECEIPT-ENTRY.	A8	A batch having the registered batch name was given as a receipt. Identifiable name should be given to the batch.
ER017	STARTING DATE OF ICR IS EQUAL TO LAST PIT DATE.	I6	Beginning date of the period covered by the IC report should be a date later than the latest PIT date.
ER018	THE DATE OF INVENTORY CHANGE IS OUT OF THE PERIOD IN HEADER.	I6	Date of events covered by the report should be within the period defined in the report header. Give a correct date of inventory change.
ER019	THE CODES OF INVENTORY CHANGES DO NOT INCLUDE THE CODE ABOVE.	A2	The inventory change code given is not one of those registered. Give a correct inventory change code.
ER020	IKMP CODE a DOES NOT APPEAR IN THIS MBA.	A4	IKMP code "a" has not been registered for the MBA. Give a correct IKMP code.
ER021	FKMP CODE a DOES NOT APPEAR IN THIS MBA.	A1	FKMP code "a" has not been registered for the MBA. Give a correct FKMP code.
ER022	ELEMENT CODES DO NOT INCLUDE THE CODE ABOVE.	A1	The element code given is not one of those registered. Give a correct element code.

Table 7 (continued)

<u>No.</u>	<u>Error Message</u>	<u>Data Type</u>	<u>Explanation and Input Data</u>
ER023	UNIT MUST BE 'G' WHEN ELEMENT CODE IS 'E' OR 'P'.	A1	The unit code given is not 'G' although the element code is 'E' or 'P'. Give a correct unit code.
ER024	WEIGHT OF ISOTOPE MUST BE 0 WHEN ELEMENT CODE IS 'D', 'T', OR 'N'.	F8.0	Weight of fissile isotopes is not required for elements 'D', 'T' and 'N'. Give 0.
ER025	WEIGHT OF ELEMENT MUST BE GREATER THAN THAT OF ISOTOPE.	2F8.0	The element weight given is less than the isotope weight. Give correct weights.
ER026	ISOTOPE CODE MUST BE 'G', 'J', OR 'K'.	A1	'G', 'J' or 'K' is permitted as the isotope code. Give a correct isotope code.
ER027	'FROM' OR 'TO' IKMP CODE TO FKMP DOES NOT MATCH WITH MBA FILE.	A4	'From-IKMP' and 'to-IKMP' corresponding to an FKMP should be those registered in the MBA file.
ER028	THE CODE OF INVENTORY CHANGE 'TR' SHOULD NOT EXIST WITH OTHER CODES.	A2	Entries with a type of inventory change code TR should be handled in a separate report.
ER029	REPORT/ENTRY NOS. OF 'CORRECTION-TO' IS NOT IN FILE.	2I2	Report/entry Nos. referred to by the correction entry is not found in the file. Give correct report/entry Nos. for 'correction-to'.
ER030	FKMP DOES NOT EXIST IN MBA FILE.	A1	FKMP entered has not been registered in the MBA file.
ER032	MATERIAL DESCRIPTION CODES DO NOT INCLUDE THE CODE ABOVE.	4A1	The material description code(s) given is(are) not one(s) of those registered. Give correct codes.
ER033	ISOTOPE CODE MUST BE 'G', 'J' OR 'K'.	A1	Isotope code must be 'G', 'J' or 'K' for uranium.
ER034	ISOTOPE CODE MUST BE	A1	Isotope code must be blank for plutonium and thorium.
ER035	NUMBER OF ENTRIES IN HEADER IS .GT. NUMBER OF READ ENTRIES. DIFFERENCE IS nnn. READ MORE ENTRIES ? (Y/N)	A1	The number of entries read in is less than the number so designated in Header. If additional entries are to be given, give 'Y', otherwise give 'N'. The system will correct the heading information.
ER042	UNIT IS NOT 'K' OR 'G'.	A1	Unit of weight should be 'K' or 'G'. Give a correct unit.

Table 7 (continued)

<u>No.</u>	<u>Error Message</u>	<u>Data Type</u>	<u>Explanation and Input Data</u>
ER050	NO BATCH NAME	A8	The batch given was supposed to exist within the facility, but the corresponding batch name is not found in BI file. Check the batch name.
ER051	THIS BATCH IS NOT FOUND IN THE IKMP.	A8	The batch given was to exist at the designated inventory KMP, but not found.
ER052	INSUFFICIENT DATA FOR FILE HEADER		Before inputting entry data, sufficient heading information should be given.
*ERROR-	ENTRY NO. DOES NOT EXIST.		Entry to be corrected does not exist.
*ERROR-	ENTRY NO. IS OUT OF RANGE.		The entry to be corrected does not exist on the screen.

Table 8 Inventory data sheet for the model power plant (I)

Date	Note	Inventory (Number of Assemblies)		
		KMP A	KMP B	KMP C
Jan. 10, 1986	First receiving 13 new fuel assemblies from a fuel fabricator	13 ( 9 assemblies for initial loading and 4 assemblies for reloading )	0	0
Feb. 25, 1986	Immediately after initial loading	4 ( for reloading )	9	0
Mar. 01, 1986	PIT	4 ( for reloading )	9	0
Feb. 20, 1987	Immediately after refueling	1 ( for reloading )	9	3
Feb. 25, 1987	PIT	1 ( for reloading )	9	3
June 20, 1987	Shipping 2 spent fuel assemblies to reprocessor	1 ( for reloading )	9	1

Table 9 Inventory data sheet for the model power plant (II)

DATE OF INVENTORY CHANGE	MBA/COUNTRY OR KMP	TYPE OF INVENT. CHANGE	NAME/ NUMBER OF BATCH	MATERIAL DESC- RIPTION	ACCOUNTANCY DATA			ISO. CODE	
					ELEMENT	WEIGHT OF ELEMENT	UNIT OF F. I.		
86 01 10	MBA0 - 1 - A	RF	AZ0001	BQ2F	E	401198	G	13685	G
86 01 10	MBA0 - 1 - A	RF	AZ0002	BQ2F	E	400252	G	13643	G
86 01 10	MBA0 - 1 - A	RF	AZ0003	BQ2F	E	400186	G	13651	G
86 01 10	MBA0 - 1 - A	RF	AZ0004	BQ2F	E	400183	G	13638	G
86 01 10	MBA0 - 1 - A	RF	AZ0005	BQ2F	E	400735	G	13662	G
86 01 10	MBA0 - 1 - A	RF	AZ0006	BQ2F	E	400966	G	13680	G
86 01 10	MBA0 - 1 - A	RF	AZ0007	BQ2F	E	401285	G	13669	G
86 01 10	MBA0 - 1 - A	RF	AZ0008	BQ2F	E	401178	G	13647	G
86 01 10	MBA0 - 1 - A	RF	AZ0009	BQ2F	E	400985	G	13636	G
86 01 10	MBA0 - 1 - A	RF	AZ0010	BQ2F	E	400924	G	13650	G
86 01 10	MBA0 - 1 - A	RF	AZ0011	BQ2F	E	400970	G	13625	G
86 01 10	MBA0 - 1 - A	RF	AZ0012	BQ2F	E	400344	G	13655	G
86 01 10	MBA0 - 1 - A	RF	AZ0013	BQ2F	E	400465	G	13647	G

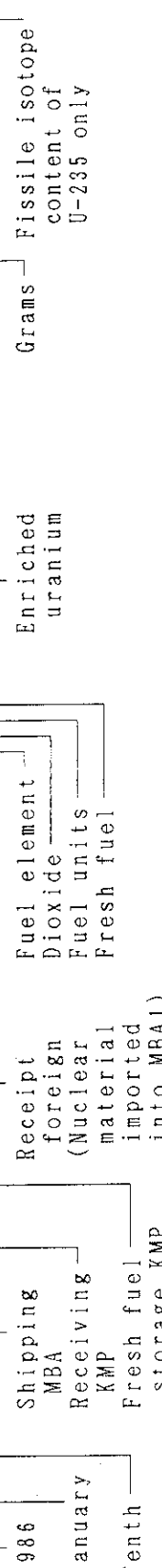




Table 9 (continued)

DATE OF INVENTORY CHANGE	MBA/COUNTRY OR KMP FROM-THRU-TO	TYPE OF INVENT. CHANGE	NAME/ NUMBER OF BATCH	MATERIAL DESC- RIPTION	ACCOUNTANCY DATA				
					ELEMENT	WEIGHT OF ELEMENT	UNIT OF F. I. CODE		
86 02 25	A - 2 - B	TR	AZ0002	BQ2F	E	400252	G	13643	G
86 02 25	A - 2 - B	TR	AZ0003	BQ2F	E	400186	G	13651	G
86 02 25	A - 2 - B	TR	AZ0004	BQ2F	E	400183	G	13638	G
86 02 25	A - 2 - B	TR	AZ0005	BQ2F	E	400735	G	13662	G
86 02 25	A - 2 - B	TR	AZ0006	BQ2F	E	400966	G	13680	G
86 02 25	A - 2 - B	TR	AZ0010	BQ2F	E	400924	G	13650	G
86 02 25	A - 2 - B	TR	AZ0011	BQ2F	E	400970	G	13620	G
86 02 25	A - 2 - B	TR	AZ0012	BQ2F	E	400344	G	13655	G
86 02 25	A - 2 - B	TR	AZ0013	BQ2F	E	400465	G	13647	G

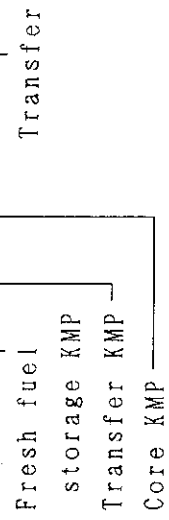


Table 9 (continued)

DATE OF INVENTORY CHANGE	MBA/COUNTRY OR KMP FROM-THRU-TO	TYPE OF INVENT. CHANGE	NAME/ NUMBER OF BATCH	MATERIAL DESC- RIPTION	ACCOUNTANCY DATA				
					ELEMENT	WEIGHT OF ELEMENT	UNIT OF F. I. CODE		
87 02 20	B - 3 - C	TR/LN	AZ0003	BQ1G	E	15803	G	8575	G
87 02 20	B - 3 - C	TR/LN	AZ0006	BQ1G	E	16070	G	8665	G
87 02 20	B - 3 - C	TR/LN	AZ0012	BQ1G	E	15952	G	8612	G
87 02 20		NP	AZ0003	BQ1G	P	3482	G	2508	
87 02 20		NP	AZ0006	BQ1G	P	3501	G	2510	
87 02 20		NP	AZ0012	BQ1G	P	3516	G	2509	

Core KMP  
 Transfer KMP  
 Spent fuel pond KMP

Nuclear production  
 Nuclear loss

Uncontained: Plutonium  
 Material not in container:  
 free standing items (including fuel elements and components, if uncrated)

Table 9 (continued)

DATE OF INVENTORY CHANGE	MBA/COUNTRY OR KMP FROM-THRU-TO	TYPE OF INVENT. CHANGE	NAME/ NUMBER OF BATCH	MATERIAL DESC- RIPTION	ACCOUNTANCY DATA			
					ELEMENT	WEIGHT OF ELEMENT	UNIT OF F. I. CODE	
87 06 20		LN	AZ0003	BQ1G	P	141	G	141
87 06 20		LN	AZ0012	BQ1G	P	139	G	139
87 06 20	C - 4 - MBA2	SF	AZ0003	BQ3G	E	384383	G	5068
87 06 20	C - 4 - MBA2	SF	AZ0003	BQ3G	P	3341	G	2367
87 06 20	C - 4 - MBA2	SF	AZ0012	BQ3G	E	384392	G	5043
87 06 20	C - 4 - MBA2	SF	AZ0012	BQ3G	P	3377	G	2370

Spent fuel pond KMP Shipping KMP Receiving MBA	↑ ↑ ↑	Shipment foreign	↑	Flask: Shielded flasks for irradiated fuel and other highly active material
--	-------------	------------------	---	--

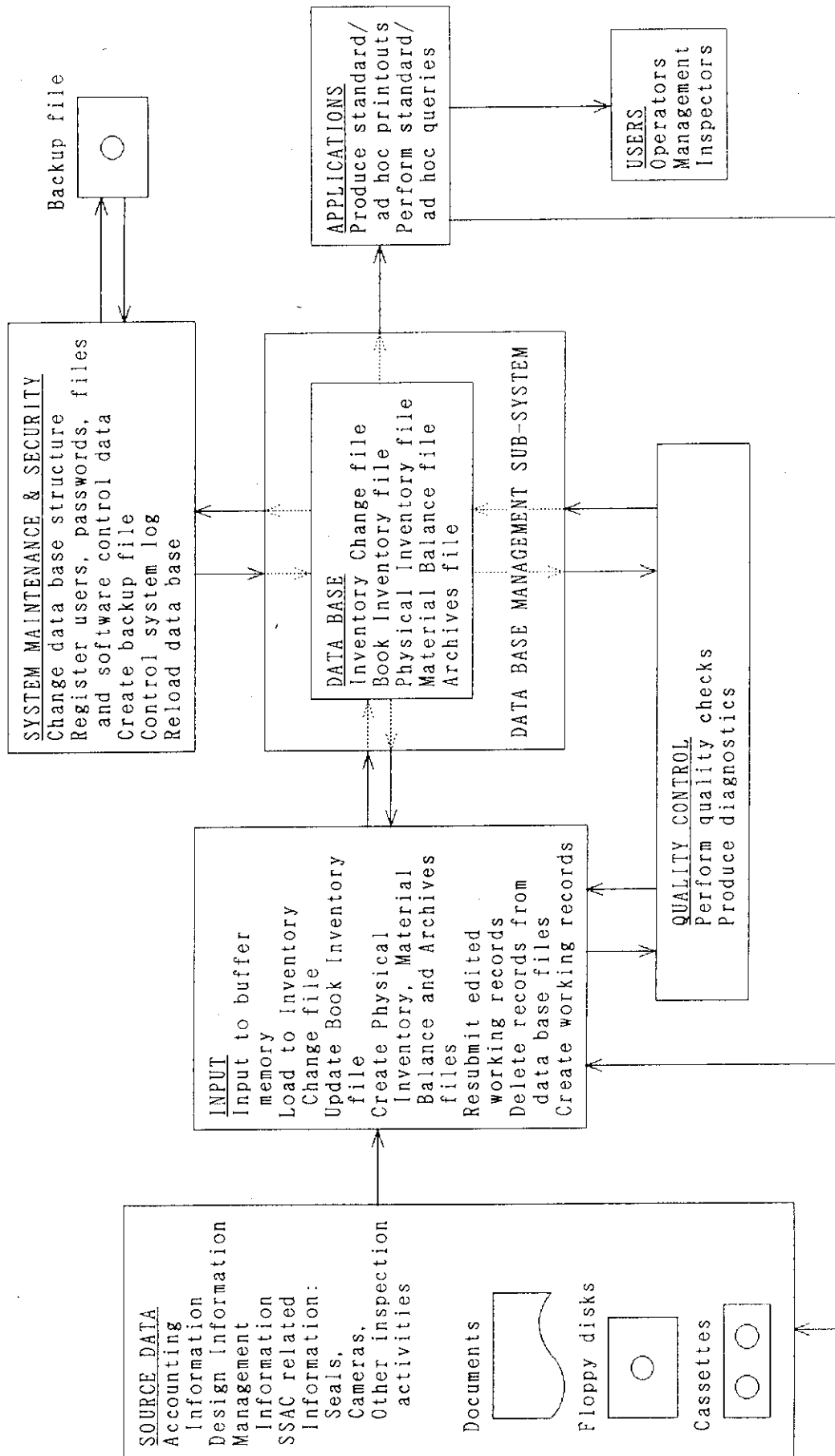


Fig. 1 Information flow diagram in a facility record and report system

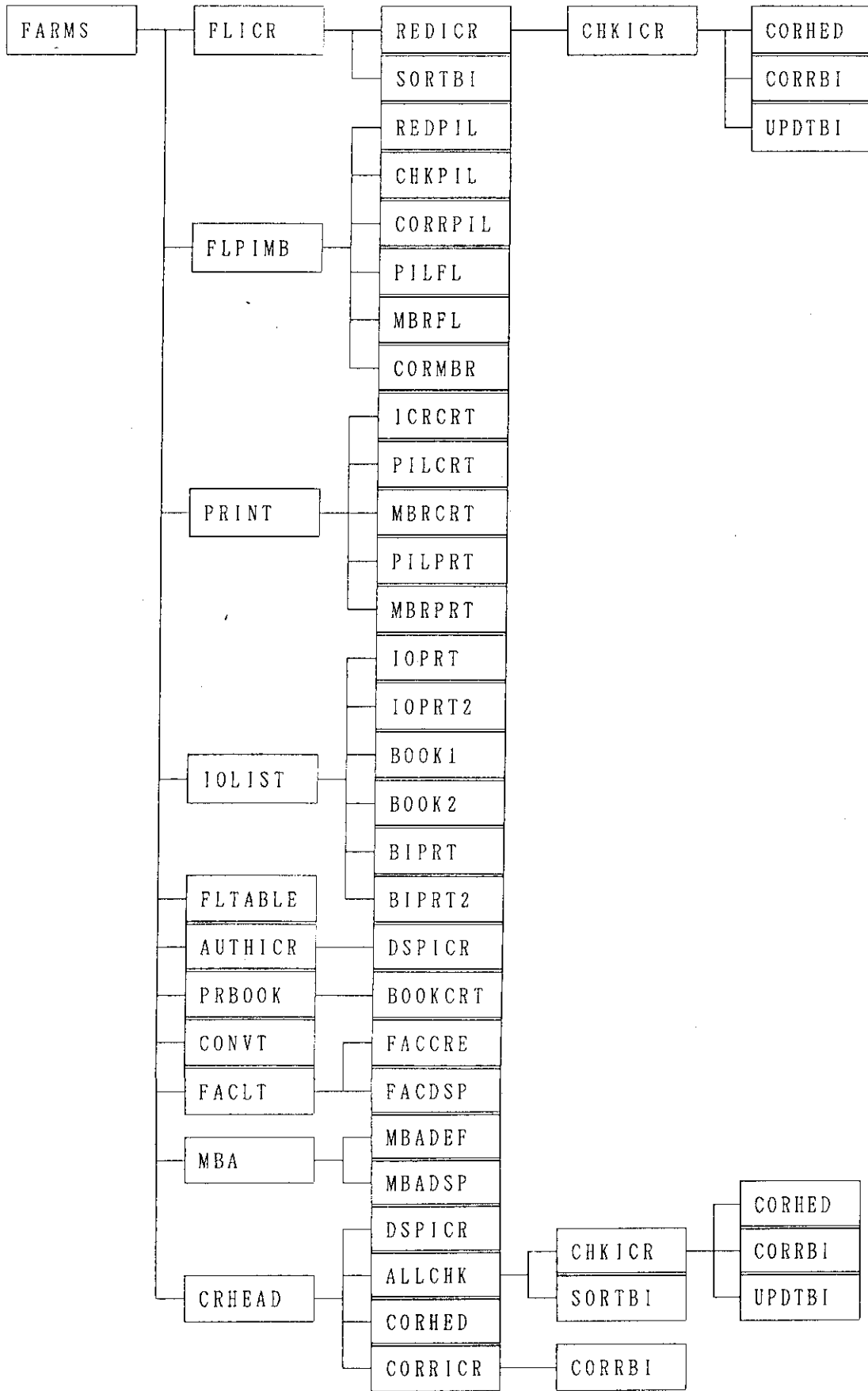


Fig. 2 Structure of the program FARMS

INVENTORY CHANGE REPORT

ORGANIZATION NAME ADDRESS		ORGANIZATION-1		PERIOD COVERED BY REPORT		FROM		TO		REPORT NO.		SIGNATURE		NISHIMURA													
FACILITY MATERIAL BALANCE AREA		FACILITY-1 MBE-1		REPORT NO.		SIGNATURE		NISHIMURA		SIGNATURE		NISHIMURA															
ORGANIZATION FACILITY MBE		PERIOD COVERED BY REPORT		FROM		TO		REPORT NO.		SIGNATURE		NISHIMURA															
ABCD	EFGH	MBA1	86/01/01	86/01/31	1	13																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
NBA1	1	1	86/01/31	86/01/10	MBA0	A	RF	1	AZ0001						E	401198	G	13685	G				0	0	2		
NBA1	1	2	86/01/31	86/01/10	MBA0	A	RF	1	AZ0002						E	400252	G	13643	G						0	0	2
NBA1	1	3	86/01/31	86/01/10	MBA0	A	RF	1	AZ0003						E	400186	G	13651	G						0	0	2
NBA1	1	4	86/01/31	86/01/10	MBA0	A	RF	1	AZ0004						E	400183	G	13638	G						0	0	2
NBA1	1	5	86/01/31	86/01/10	MBA0	A	RF	1	AZ0005						E	400735	G	13662	G						0	0	2
NBA1	1	6	86/01/31	86/01/10	MBA0	A	RF	1	AZ0006						E	400966	G	13680	G						0	0	2
NBA1	1	7	86/01/31	86/01/10	MBA0	A	RF	1	AZ0007						E	400125	G	13669	G						0	0	2
NBA1	1	8	86/01/31	86/01/10	MBA0	A	RF	1	AZ0008						E	401178	G	13647	G						0	0	2
NBA1	1	9	86/01/31	86/01/10	MBA0	A	RF	1	AZ0009						E	400985	G	13636	G						0	0	2
NBA1	1	10	86/01/31	86/01/10	MBA0	A	RF	1	AZ0010						E	400924	G	13650	G						0	0	2
NBA1	1	11	86/01/31	86/01/10	MBA0	A	RF	1	AZ0011						E	400970	G	13625	G						0	0	2
NBA1	1	12	86/01/31	86/01/10	MBA0	A	RF	1	AZ0012						E	400344	G	13655	G						0	0	2
NBA1	1	13	86/01/31	86/01/10	MBA0	A	RF	1	AZ0013						E	400344	G	13655	G						0	0	2

1: MBA  
 2: REPORT NO.  
 3: ENTRY NO.  
 4: CONTINUATION  
 5: DATE OF ENTRY  
 6: DATE OF INVENTORY CHANGE  
 7: KMP CODE (FROM)  
 8: KMP CODE (TO)  
 9: TYPE OF INVENTORY CHANGE  
 10: KMP CODE  
 11: NAME/NO. OF BATCH  
 12: NUMBER OF ITEMS IN BATCH  
 13: MATERIAL DESCRIPTION  
 14: ORIGIN OF MATERIAL  
 15: ELEMENT CODE  
 16: WEIGHT OF ELEMENT  
 17: UNIT OF WEIGHT  
 18: WEIGHT OF FISSION ISOTOPE  
 19: ISOTOPE CODE  
 20: MEASUREMENT BASIS  
 21: CONCISE NOTE  
 22: REPORT NO.(CORRECTION TO)  
 23: ENTRY NO.(CORRECTION TO)  
 24: TYPE

Fig. 3 Sample output for ICR

PHYSICAL INVENTORY LISTING

ORGANIZATION		ORGANIZATION-1		DATE OF PIL 86/03/01		REPORT NO. 3		SIGNATURE NISHIMURA										
NAME	ADDRESS	FACILITY-1	MBA-1	REPORT NO.	SIGNATURE	NUMBER OF ENTRY	SIGNATURE	CONTINUATION	MATERIAL DESCRIPTION									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
MBAL	3	1	A	AZ0001	1	BQ2F	1	BQ2F	E	401198.	G	13685.	G	0	0	0	0	5
MBAL	3	2	A	AZ0007	1	BQ2F	1	BQ2F	E	400123.	G	13669.	G	0	0	0	0	5
MBAL	3	3	A	AZ0008	1	BQ2F	1	BQ2F	E	401178.	G	13647.	G	0	0	0	0	5
MBAL	3	4	A	AZ0009	1	BQ2F	1	BQ2F	E	400985.	G	13636.	G	0	0	0	0	5
MBAL	3	5	B	AZ0002	1	BQ2F	1	BQ2F	E	400252.	G	13643.	G	0	0	0	0	5
MBAL	3	6	B	AZ0003	1	BQ2F	1	BQ2F	E	400186.	G	13651.	G	0	0	0	0	5
MBAL	3	7	B	AZ0004	1	BQ2F	1	BQ2F	E	400183.	G	13638.	G	0	0	0	0	5
MBAL	3	8	B	AZ0005	1	BQ2F	1	BQ2F	E	400733.	G	13662.	G	0	0	0	0	5
MBAL	3	9	B	AZ0006	1	BQ2F	1	BQ2F	E	400966.	G	13680.	G	0	0	0	0	5
MBAL	3	10	B	AZ0010	1	BQ2F	1	BQ2F	E	400924.	G	13650.	G	0	0	0	0	5
MBAL	3	11	B	AZ0011	1	BQ2F	1	BQ2F	E	400970.	G	13625.	G	0	0	0	0	5
MBAL	3	12	B	AZ0012	1	BQ2F	1	BQ2F	E	400344.	G	13655.	G	0	0	0	0	5
MBAL	3	13	B	AZ0013	1	BQ2F	1	BQ2F	E	400344.	G	13655.	G	0	0	0	0	5

1: MBA  
 5: KMP CODE  
 9: ORIGIN OF MATERIAL  
 13: WEIGHT OF FISSION ISOTOPE  
 17: REPORT NO. (CORRECTION TO)

2: REPORT NO.  
 6: NAME/NO. OF BATCH  
 10: ELEMENT CODE  
 14: ISOTOPE CODE  
 18: ENTRY NO (CORRECTION TO)

3: ENTRY NO.  
 7: NUMBER OF ITEMS IN BATCH  
 11: WEIGHT OF ELEMENT  
 15: MEASURE BASIS  
 19: TYPE

4: CONTINUATION  
 8: MATERIAL DESCRIPTION  
 12: UNIT OF WEIGHT  
 16: CONCISE NOTE

Fig. 4 Sample output for PIL

MATERIAL BALANCE REPORT

ORGANIZATION NAME ADDRESS		ORGANIZATION-1		PERIOD COVERED BY PERIOD		FROM 86/01/01 TO 86/03/01		REPORT NO. 4		SIGNATURE NISHIMURA				
FACILITY MATERIAL BALANCE AREA MBA-1		FACILITY-1 MBA-1		PERIOD COVERED BY PERIOD		FROM TO		REPORT NO. OF ENTRY		SIGNATURE				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ABCD	EFGH	MBA1	86/01/01	86/03/01	4	10	NISHIMURA	6						
MBAL	4	1	PB	5208390.	E	7	0.	G	0.	G		0	0	7
MBAL	4	2	RF	177496.	E	7	177496.	G	0.	G		0	0	7
MBAL	4	3	NP	0.	E	7	0.	G	0.	G		0	0	7
MBAL	4	4	SF	0.	E	7	0.	G	0.	G		0	0	7
MBAL	4	5	LN	0.	E	7	0.	G	0.	G		0	0	7
MBAL	4	6	BE	5208390.	E	7	177496.	G	177496.	G		0	0	7
MBAL	4	7	BA	5208390.	E	7	177496.	G	177496.	G		0	0	7
MBAL	4	8	PE	5208390.	E	7	177496.	G	177496.	G		0	0	7
MBAL	4	9	MF	0.	E	7	0.	G	0.	G		0	0	7
MBAL	4	10	RA	0.	E	7	0.	G	0.	G		0	0	7

1: MBA  
 5: ENTRY NAME  
 9: UNIT OF WEIGHT  
 13: REPORT NO.(CORRECTION TO)  
 2: REPORT NO.  
 6: ORIGIN OF MATERIAL  
 10: WEIGHT OF FISSILE ISOTOPE  
 14: ENTRY NO.(CORRECTION TO)  
 3: ENTRY NO.  
 7: ELEMENT CODE  
 11: ISOTOPE CODE  
 15: TYPE  
 4: CONTINUATION  
 8: WEIGHT OF ELEMENT  
 12: CONCISE NOTE

Fig. 5 Sample output for MBR



BOOK INVENTORY LISTING

ORGANIZATION		ORGANIZATION-1				DATE		86/02/28											
NAME		ADDRESS				FACILITY		MATERIAL BALANCE AREA											
FACILITY		MATERIAL BALANCE AREA				MBA-1													
ORGANIZATION		FACILITY				MBA		DATE OF BIL											
ABCD		EFGH				MBAI		86/02/28											
1		3				4		5											
2		6				7		8											
3		9				10		11											
4		13				12		13											
5		14				15		16											
6		17				18		19											
MBAL	1	A	AZ0001	1	BQ2F	1	401198	G	13685	G									
MBAL	2	A	AZ0007	1	BQ2F	1	400125	G	13669	G									
MBAL	3	A	AZ0008	1	BQ2F	1	401178	G	13647	G									
MBAL	4	A	AZ0009	1	BQ2F	1	400985	G	13636	G									
MBAL	5	B	AZ0002	1	BQ2F	1	400252	G	13643	G									
MBAL	6	B	AZ0003	1	BQ2F	1	400186	G	13651	G									
MBAL	7	B	AZ0004	1	BQ2F	1	400183	G	13638	G									
MBAL	8	B	AZ0005	1	BQ2F	1	400735	G	13662	G									
MBAL	9	B	AZ0006	1	BQ2F	1	400966	G	13680	G									
MBAL	10	B	AZ0010	1	BQ2F	1	400924	G	13650	G									
MBAL	11	B	AZ0011	1	BQ2F	1	400970	G	13625	G									
MBAL	12	B	AZ0012	1	BQ2F	1	400344	G	13655	G									
MBAL	13	B	AZ0013	1	BQ2F	1	400344	G	13655	G									

1: MBA  
 2: REPORT NO.  
 3: ENTRY NO.  
 4: CONTINUATION  
 5: KMP CODE  
 6: NAME/NO. OF BATCH  
 7: NUMBER OF ITEMS IN BATCH  
 8: MATERIAL DESCRIPTION  
 9: ORIGIN OF MATERIAL  
 10: ELEMENT CODE  
 11: WEIGHT OF ELEMENT  
 12: UNIT OF WEIGHT  
 13: WEIGHT OF FISSION ISOTOPE  
 14: ISOTOPE CODE  
 15: MEASUREMENT BASIS  
 16: CONSCISE NOTE  
 17: REPORT NO.(CORRECTION TO)  
 18: ENTRY NO(CORRECTION TO)  
 19: TYPE

Fig. 6 Sample output for BIL

BOOK INVENTORY LISTING

ORGANIZATION NAME		ORGANIZATION-1		DATE		86/01/10												
ADDRESS		FACILITY-1																
MATERIAL BALANCE AREA		MBA-1																
ORGANIZATION FACILITY		MBA		DATE OF BILL		NUMBER OF ENTRY												
ABCD	EFGH	MBA1	86/01/10	13	14	15	16	17	18	19								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
MBAL	1	A	AZ0001	1	BQ2F	E	401198	G	13685	G								
MBAL	2	A	AZ0002	1	BQ2F	E	400252	G	13643	G								
MBAL	3	A	AZ0003	1	BQ2F	E	400186	G	13651	G								
MBAL	4	A	AZ0004	1	BQ2F	E	400183	G	13638	G								
MBAL	5	A	AZ0005	1	BQ2F	E	400735	G	13662	G								
MBAL	6	A	AZ0006	1	BQ2F	E	400966	G	13680	G								
MBAL	7	A	AZ0007	1	BQ2F	E	400125	G	13669	G								
MBAL	8	A	AZ0008	1	BQ2F	E	401178	G	13647	G								
MBAL	9	A	AZ0009	1	BQ2F	E	400985	G	13636	G								
MBAL	10	A	AZ0010	1	BQ2F	E	400924	G	13650	G								
MBAL	11	A	AZ0011	1	BQ2F	E	400970	G	13625	G								
MBAL	12	A	AZ0012	1	BQ2F	E	400344	G	13655	G								
MBAL	13	A	AZ0013	1	BQ2F	E	400344	G	13655	G								

1: MBA  
 2: REPORT NO.  
 3: ENTRY NO.  
 4: CONTINUATION  
 5: KMP CODE  
 6: NAME/NO. OF BATCH  
 7: NUMBER OF ITEMS IN BATCH  
 8: MATERIAL DESCRIPTION  
 9: ORIGIN OF MATERIAL  
 10: ELEMENT CODE  
 11: WEIGHT OF ELEMENT  
 12: UNIT OF WEIGHT  
 13: WEIGHT OF FISSILE ISOTOPE  
 14: ISOTOPE CODE  
 15: MEASUREMENT BASIS  
 16: CONCISE NOTE  
 17: REPORT NO.(CORRECTION TO)  
 18: ENTRY NO.(CORRECTION TO)  
 19: TYPE

[ INPUT OUTPUT TRANSFER LIST ]

PERIOD (FROM) : 86/01/10  
 (TO) : 87/06/30

KMP	ELEMENT CODE	WEIGHT OF ELEMENT		ISO-TOPE CODE	WEIGHT OF ISOTOPE		
		RF	LN		RF	LN	
1	E	0	5,208,390	0	G	0	0
2	E	3,604,904	0	0	G	122,859	0
3	E	1,153,671	0	0	G	15,134	0
4	E	0	0	768,775	G	0	10,119
4	P	0	0	6,718	G	0	4,737
5	E	0	0	0	G	0	0
6	P	0	0	47,825	G	0	0
6	P	0	0	0	G	0	0
7	P	0	0	0	G	0	0
						177,496	25,852
							280

Fig. 7 Sample output for the summary table

BOOK INVENTORY LISTING

ORGANIZATION NAME		ORGANIZATION-1 ADDRESS		FACILITY ADDRESS		FACILITY-1 MATERIAL BALANCE AREA		MBA-1		DATE		87/06/30								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
MBAL	ABCD	EF	GH	MBAL	87/06/30	MBAL	87/06/30	MBAL	87/06/30	MBAL	87/06/30	MBAL	87/06/30	MBAL	87/06/30	MBAL	87/06/30	MBAL	87/06/30	
1	A	AZ0001	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
2	A	AZ0007	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
3	A	AZ0008	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
4	A	AZ0009	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
5	B	AZ0002	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
6	B	AZ0004	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
7	B	AZ0005	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
8	B	AZ0010	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
9	B	AZ0011	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
10	B	AZ0013	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
11	C	AZ0006	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF	1	BQZF
12	C	AZ0006	1	BQ1G	1	BQ1G	1	BQ1G	1	BQ1G	1	BQ1G	1	BQ1G	1	BQ1G	1	BQ1G	1	BQ1G

1: MBA  
 2: REPORT NO.  
 3: ENTRY NO.  
 4: CONTINUATION  
 5: KMP CODE  
 6: NAME/NO. OF BATCH  
 7: NUMBER OF ITEMS IN BATCH  
 8: MATERIAL DESCRIPTION  
 9: ORIGIN OF MATERIAL  
 10: ELEMENT CODE  
 11: WEIGHT OF ELEMENT  
 12: UNIT OF WEIGHT  
 13: WEIGHT OF FISSILE ISOTOPE  
 14: ISOTOPE CODE  
 15: MEASUREMENT BASIS  
 16: CONSCISE NOTE  
 17: REPORT NO. (CORRECTION TO)  
 18: ENTRY NO (CORRECTION TO)  
 19: TYPE

Fig. 7 (continued)

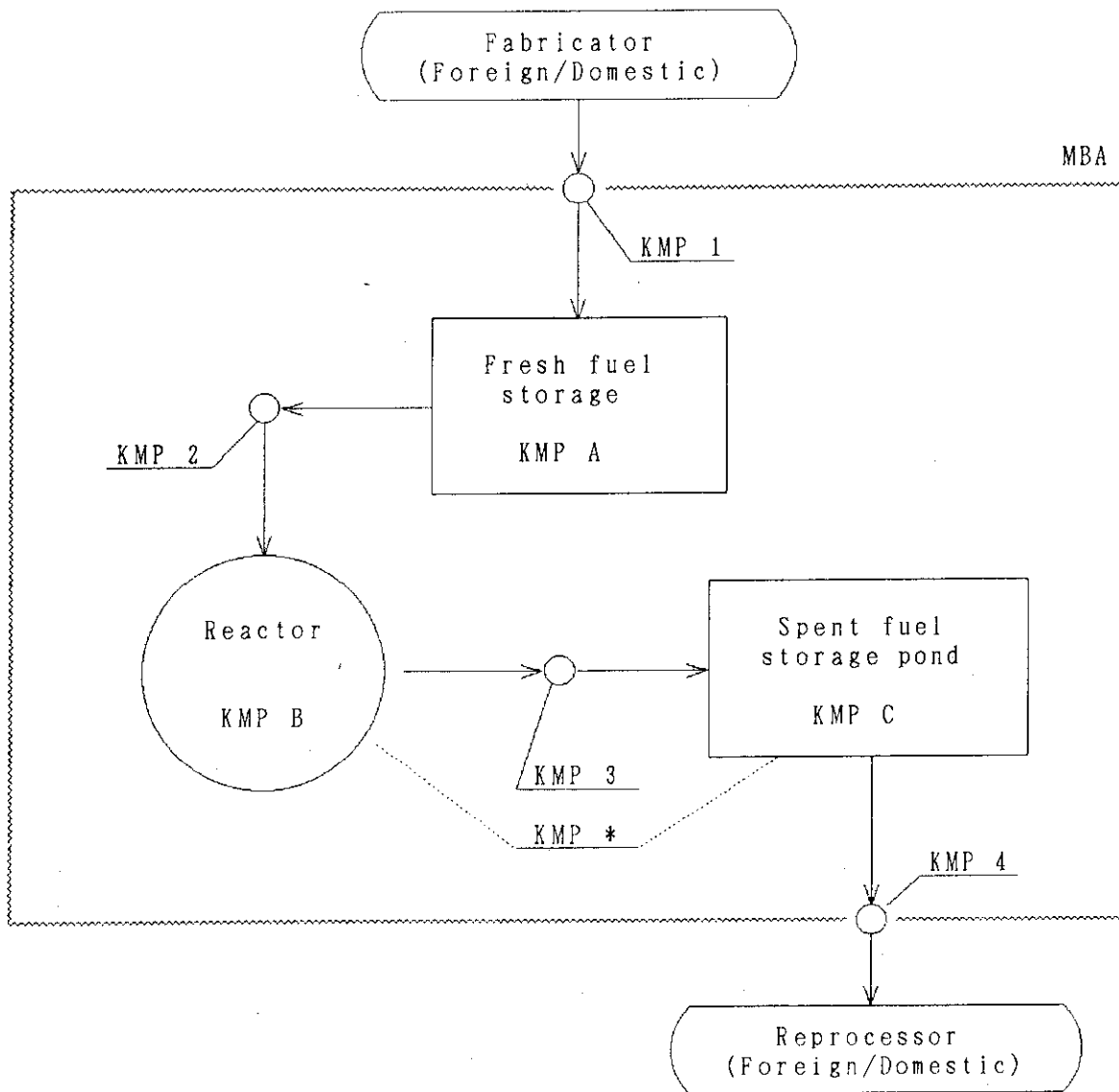
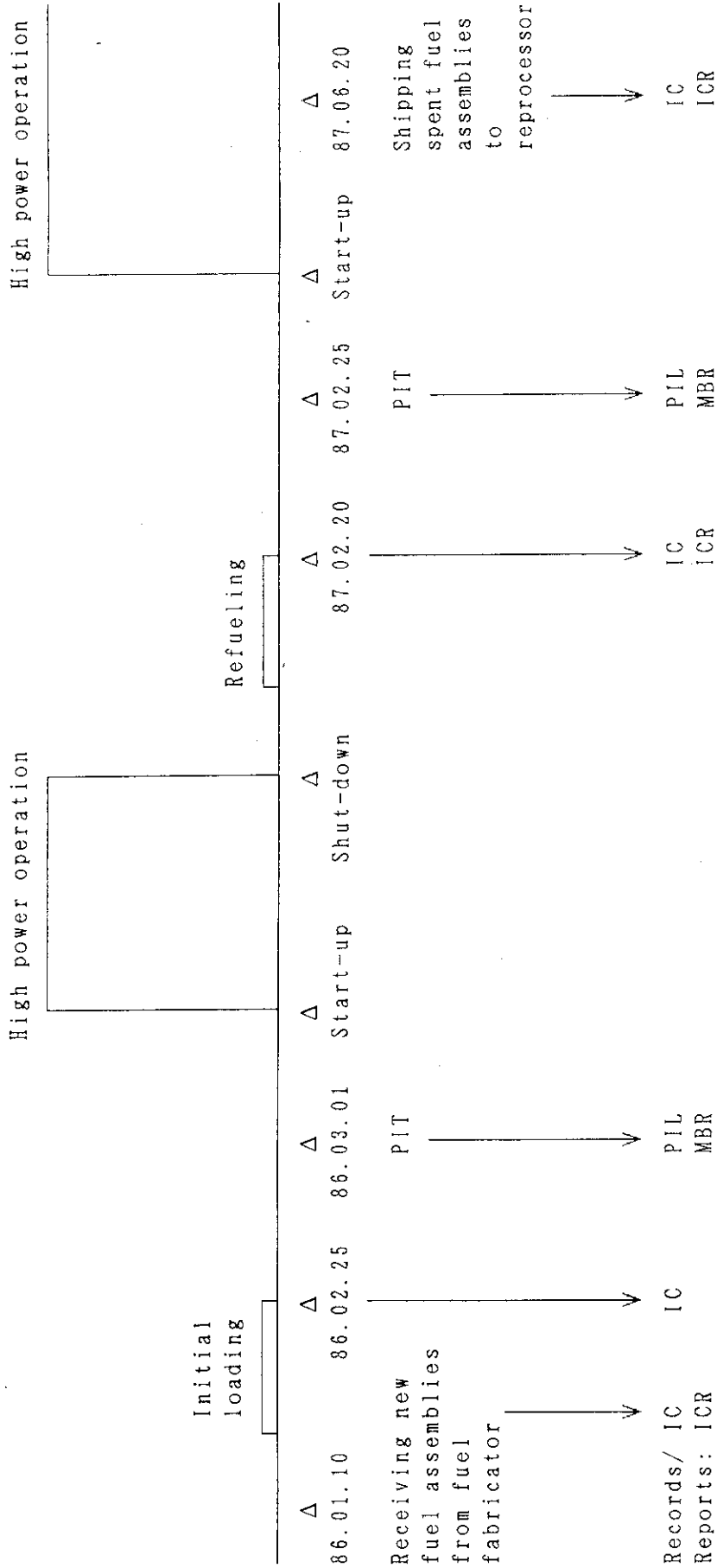


Fig. 8 Nuclear material flow in the model facility



IC : Inventory Change Record  
 ICR: Inventory Change Report  
 PIL: Physical Inventory Listing  
 MBR: Material Balance Report

Fig. 9 Model plant operation in the model facility

Appendix Source List of the FARMS Code



```

61:
62: CLEAR
63: @ 4,18 SAY "*****PIL FILE CREATE OPTION*****"
64: @ 5,18 SAY "*****PIL FILE CREATE OPTION*****"
65: @ 6,18 SAY "*****PIL FILE CREATE OPTION*****"
66: @ 8,18 SAY " 1 : KEY-IN PIL DATA"
67: @ 9,18 SAY " 2 : AUTOMATICALLY CREATE PIL FILE"
68: @ 11,18 SAY " SELECT NO."
69: NO=" "
70: DO WHILE .T.
71:   @ 11,36 GET NO
72:   READ
73:   IF NO="1"
74:     PILOPT=1
75:     EXIT
76:   ENDIF
77:
78:   IF NO="2"
79:     PILOPT=2
80:     EXIT
81:   ENDIF
82: ENDDO
83:
84: DO WHILE .T.
85: CLEAR
86: ?? &B
87: @ 1,10 SAY "*****FARMS MENU*****"
88: @ 2,10 SAY "*"
89: @ 3,10 SAY "*"
90: @ 4,10 SAY "*"
91: @ 5,10 SAY "*****"
92:
93: ?? &Y
94: @ 3,12 SAY " F A R M S M E N U "
95: @ 9,10 SAY " 0. END"
96: @ 10,10 SAY " 1. CREATE OR UPDATE IC FILE"
97: @ 11,10 SAY " 2. CREATE OR UPDATE PI AND MB FILE"
98: @ 12,10 SAY " 3. PRINT ICR, PII OR MBR FILE"
99: @ 13,10 SAY " 4. SUM UP BOOK INVENTORY AND INVENTORY CHANGES"
100: @ 14,10 SAY " 5. DISPLAY A TABLE OF REPORTS NO. - PERIOD"
101: @ 15,10 SAY " 6. AUTHORIZE IC REPORT(S)"
102: @ 16,10 SAY " 7. PRINT BIL"
103: @ 17,10 SAY " 8. FILE CONVERT dBASE-III TO ASCII"
104: @ 18,10 SAY " 9. DESIGN INFORMATION"
105: @ 19,10 SAY " 10. CORRECT IC FILE"
106: @ 21,10 SAY " SELECT NO."
107:
108: NO = " "
109: DO WHILE .T.
110:   @ 21,37 GET NO
111:   READ
112:   DO CASE
113:     CASE NO="1" .OR. NO="1"
114:       DO FLICR
115:       EXIT
116:     CASE NO="2" .OR. NO="2"
117:       DO FLPIMB
118:       EXIT
119:     CASE NO="3" .OR. NO="3"
120:       DO PRINT

```



```

121: EXIT
122: CASE NO=" 4" .OR. NO="4 "
123: DO IOLIST
124: EXIT
125: CASE NO=" 5" .OR. NO="5 "
126: DO FLTABLE
127: EXIT
128: CASE NO=" 6" .OR. NO="6 "
129: DO AUTHICR
130: EXIT
131: CASE NO=" 7" .OR. NO="7 "
132: DO PRBOOK
133: EXIT
134: CASE NO=" 8" .OR. NO="8 "
135: DO CONVT
136: EXIT
137: CASE NO=" 9" .OR. NO="9 "
138: DO WHILE .T.
139: CLEAR
140: ?? &Y
141: @ 1,10 SAY "*****"
142: @ 2,10 SAY "*****"
143: @ 3,10 SAY "*****"
144: @ 6,10 SAY "*****"
145: @ 8,10 SAY "*****"
146: @ 10,10 SAY "*****"
147: @ 14,10 SAY "*****"
148: NO=" "
149: DO WHILE .T.
150: @ 14,30 GET NO
151: READ
152: IF NO="1" .OR. NO="2" .OR. NO="0"
153: EXIT
154: ENDIF
155: ENDDO
156: IF NO="0"
157: EXIT
158: ENDF
159: IF NO="1"
160: DO FACLT
161: LOOP
162: ENDF
163: IF NO="2"
164: DO MBA
165: LOOP
166: ENDF
167: ENDDO
168: EXIT
169: CASE NO="10"
170: DO CRHEAD
171: EXIT
172: CASE NO=" 0" .OR. NO="0 "
173: ? CHR(27)+[>11,
174: QUIT
175: OTHERWISE
176: LOOP
177: ENDCASE
178: ENDDO
179: ENDDO

```

```

1: PROCEDURE FACCRE
2:
3: *****
4: * FACILITY DEFINITION *
5: *****
6:
7: CLEAR
8: SET COLOR TO BG
9: ?? &B
10: DO CASE
11: |CASE NO="1"|
12: | @ 1,1 SAY "[ CREATE ]"
13: |CASE NO="2"|
14: | @ 1,1 SAY "[ UPDATE ]"
15: |CASE NO="3"|
16: | @ 1,1 SAY "[ MBA DELETE ]"
17: |CASE NO="4"|
18: | @ 1,1 SAY "[ MBA APPEND ]"
19: ENDCASE
20: IF EOF() .AND. ( NO="2" .OR. NO="3" )
21: | AA = " "
22: | @ 5,10 SAY &Y+"NO FACILITY DEFINITION RECORD " GET AA
23: | READ
24: | RETURN
25: ENDIF
26: *SET COLOR TO GR
27: ?? &Y
28: @ 3,10 SAY &Y+"***** INPUT FACILITY DEFINITION *****"
29: @ 5,10 SAY &Y+" "
30: @ 7,10 SAY &Y+" ORGANIZATION [ ] [ ]"
31: @ 8,10 SAY &Y+" FACILITY [ ] [ ]"
32: @ 22,10 SAY &Y+" EXIT WHEN CODE IS BLANK"
33:
34: FACCD=" "
35: FACNM=SPACE(20)
36: ORGCD=" "
37: ORGNM=SPACE(20)
38: MBACD=" "
39: MBANM=SPACE(20)
40: IF NO<>"1"
41: | GO TOP
42: | ORGCD=CODE
43: | ORGNM=NAME
44: | SKIP
45: | FACCD=CODE
46: | FACNM=NAME
47: ENDIF
48:
49: *SET COLOR TO W
50: ?? &W
51: @ 7,29 SAY ORGCD
52: @ 7,36 SAY ORGNM
53: @ 8,29 SAY FACCD
54: @ 8,36 SAY FACNM
55: SET COLOR TO GR
56:
57: IF NO<>"1"
58: | SKIP
59: | L=1
60: | DO WHILE .NOT. EOF( )

```

```

61: LL=9+L
62: @ LL,10 SAY &Y+" MBA"+STR(L,3) ] [
63: @ LL,28 SAY &Y+" [
64: *SET COLOR TO W ]"
65: ?? &W
66: @ LL,29 SAY CODE
67: @ LL,36 SAY NAME
68: *SET COLOR TO GR
69: ?? &Y
70: SKIP
71: L=L+1
72: ENDDO
73: LEND=L-1
74: ENDIF
75:
76: DO CASE
77: !CASE NO="1"
78: @ 7,29 GET ORGCD
79: @ 7,36 GET ORGNM
80: @ 8,29 GET FACCD
81: @ 8,36 GET FACNM
82: READ
83: IF ORGCD=" " .OR. FACCD=" "
84: ! RETURN
85: ENDIF
86:
87: APPEND BLANK
88: REPLACE CODE WITH ORGCD
89: REPLACE NAME WITH ORGNM
90: APPEND BLANK
91: REPLACE CODE WITH FACCD
92: REPLACE NAME WITH FACNM
93:
94: L=1
95: DO WHILE .T.
96: MBACD=" "
97: MBANM=SPACE(20)
98: LL=L+9
99: @ LL,10 SAY &Y+" MBA"+STR(L,3) ] [
100: @ LL,28 SAY &Y+" [
101: @ LL,29 GET MBACD
102: @ LL,36 GET MBANM
103: READ
104: IF MBACD=" "
105: ! RETURN
106: ENDIF
107: LOCATE FOR CODE=MBACD
108: IF .NOT. EOF()
109: ! AA=" "
110: @ 20,20 SAY &R+"THIS MBA CODE IS ALREADY EXIST IN THIS FACILITY"
111: @ 22,60 GET AA
112: READ
113: @ 20,20 SAY SPACE(59)
114: ! LOOP
115: ENDIF
116: APPEND BLANK
117: REPLACE CODE WITH MBACD
118: REPLACE NAME WITH MBANM
119: L=L+1
120: ENDDO

```

```

121:
122: CASE NO="2"
123: @ 7,29 GET ORGCD
124: @ 7,36 GET ORGNM
125: @ 8,29 GET FACCD
126: @ 8,36 GET FACNM
127: READ
128: IF ORGCD=" " .OR. FACCD=" "
129: | RETURN
130: | ENDDIF
131:
132: GO TOP
133: REPLACE CODE WITH ORGCD
134: REPLACE NAME WITH ORGNM
135: SKIP
136: REPLACE CODE WITH FACCD
137: REPLACE NAME WITH FACNM
138:
139: SKIP
140: L=1
141: DO WHILE L<=LEND
142: | MBACD=CODE
143: | MBANM=NAME
144: | LL=L+9
145: | @ LL,28 SAY &Y+" | |
146: | @ LL,29 GET MBACD
147: | @ LL,36 GET MBANM
148: | READ
149: | IF CODE<>MBACD
150: | | LOCATE FOR CODE=MBACD
151: | | IF .NOT. EOF()
152: | | | AA=" "
153: | | | @ 20,20 SAY &R+"THIS MBA CODE IS ALREADY EXIST IN THIS FACILITY"
154: | | | @ 22,60 GET AA
155: | | | READ
156: | | | @ 20,20 SAY SPACE(59)
157: | | | LOOP
158: | | ENDDIF
159: | ENDDIF
160: REPLACE CODE WITH MBACD
161: REPLACE NAME WITH MBANM
162: L=L+1
163: SKIP
164: ENDDO
165: RETURN
166:
167: CASE NO="3"
168: ?? &Y
169: @ 9,60 SAY "KEY IN 'D'"
170: L=1
171: LCNT=0
172: GOTO 2
173: SKIP
174: DO WHILE L<=LEND
175: | | KD=" "
176: | | LL=L+9
177: | | @ LL,65 GET KD
178: | | READ
179: | | IF KD="D"
180: | | | DELETE

```

```

181: | LCNT=LCNT+1
182: | ENDF
183: | L=L+1
184: | SKIP
185: ENDDO
186: LEND=LEND-LCNT
187: RETURN
188:
189: CASE NO="4"
190: L=LEND+1
191: DO WHILE .T.
192: | LL=L+9
193: | @ LL,10 SAY &Y+" MBA"+STR(L,3)
194: | @ LL,28 SAY &Y+" [ ]"
195: | MBACD=" "
196: | MBANM=SPACE(20)
197: | @ LL,29 GET MBACD
198: | @ LL,36 GET MBANM
199: READ
200: IF MBACD=" "
201: | RETURN
202: ENDF
203: LOCATE FOR CODE=MBACD
204: IF .NOT. EOF()
205: | AA=" "
206: | @ 20,20 SAY &R+"THIS MBA CODE IS ALREADY EXIST IN THIS FACILITY"
207: | @ 22,60 GET AA
208: READ
209: | @ 20,20 SAY SPACE(59)
210: | LOOP
211: ENDF
212: APPEND BLANK
213: REPLACE CODE WITH MBACD
214: REPLACE NAME WITH MBANM
215: L=L+1
216: LEND=LEND+1
217: ENDDO
218:
219: ENDCASE
220:
221: *****
222: PROCEDURE FACDSP
223: *****
224: * DISPLAY FACILITY *
225: *****
226: Q=" "
227: DO WHILE .T.
228: | ?? &W
229: | @ 22,10 SAY "OUTPUT TO SCREEN OR PRINTER ? (S/P) " GET Q
230: READ
231: | IF Q="P" .OR. Q="S"
232: | | EXIT
233: | ENDF
234: ENDDO
235:
236: IF Q="p"
237: | SET DEVICE TO PRINT
238: ENDF
239: IF Q="S"
240: | CLEAR

```

```

241: | @ 1,1 SAY &B+" [ DISPLAY ]"
242: | ?? &Y
243: ENDIF
244:
245: @ 3,10 SAY "***** FACILITY DEFINITION *****"
246: @ 5,10 SAY "          CODE          NAME"
247: GO TOP
248: @ 7,10 SAY " ORGANIZATION  ["+CODE+" ] ["+NAME+" ]"
249: SKIP
250: @ 8,10 SAY " FACILITY    ["+CODE+" ] ["+NAME+" ]"
251: SKIP
252: L=0
253: DO WHILE .NOT. EOF()
254: | L=L+1
255: | LL=9+L
256: | @ LL,10 SAY " MEA"+STR(L,3)
257: | @ LL,28 SAY " ["+CODE+" ] ["+NAME+" ]"
258: | SKIP
259: ENDDO
260:
261: IF Q='P'
262: | SET DEVICE TO SCREEN
263: | ELSE
264: | A=" "
265: | @ 20,30 SAY &G+"PRESS ANY KEY " GET A
266: | READ
267: ENDIF
268: RETURN

```

```

1: PROCEDURE REDICR
2: *****
3: * ICR ENTRY ERROR CHECK *
4: *
5: *****
6:
7: ICRWR=0
8: STORE " " TO CI
9: STORE 0 TO D1,D9,DB,DD,DE
10: STORE " " TO D2
11: STORE " " TO D7,D3,D4
12: STORE " " TO D5,D8,DA,DC
13: STORE " " TO D6
14: ECNT = 1
15: WQ8 = Q8
16: * *****
17: * * READ ENTRY *
18: * *****
19: DO WHILE ECNT<=Q8
20:
21: CLEAR
22:
23: ?? &Y
24: @ 1,5 SAY "***** IC ENTRY INFORMATION [ REPORT No. = "
25: @ 1,53 SAY WREPNO PICTURE '999'
26: @ 1,62 SAY " | *****"
27: @ 3,2 SAY " DATE TYPE KMP NAME / MATE- .....ACCOUNTANCY DATA....." CORR-TO "
28: @ 4,2 SAY "ENTRY OF CODE OF NUMBER RIAL ELE- WEIGHT UNIT WEIGHT ISO REP ENT"
29: @ 5,2 SAY " INVENT INVT OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
30: @ 6,2 SAY " NO. CHANGE CHNG FROM TO
31: @ 7,2 SAY " "
32: @ 22,2 SAY " * ENTRY NO. : EXIT WHEN '-1', ERROR CHECK WHEN '0'"
33: @ 23,2 SAY " * RE-INPUT WHEN PREVIOUS ENTRY NO."
34:
35: STORE 9 TO L
36: EF=ECNT
37: DO WHILE L<=21 .AND. ECNT<=Q8+1
38: IF ECNT<>1
39: -----
40: GOTO BOTTOM
41: D1=CHGDAT
42: D2=SUBSTR(CHGTYP,1,2)
43: D3=CNTRYF
44: D4=CNTRYT
45: D5=KMP
46: D6=BATNO
47: D7=MATDSC
48: D8=ACCECD
49: D9=0.0
50: DA=ACCUNT
51: DB=0.0
52: DC=ACCLCD
53: DD=CORRRNO
54: DE=CORRENO
55: ENDIF
56: LI=L
57: ECNT1=ECNT
58: IF ECNT1>Q8 .OR. L=21
59: ECNT1=0
60: ENDIF

```

```

61: DO WHILE .T.
62:   @ L,3 GET ECNT1 PICTURE '99'
63:   READ
64:   IF ECNT>Q8 .AND. ECNT1>Q8
65:     @ L,8 SAY &R+ " *ERROR- ALL ENTRIES ALREADY READ,GO ERROR CHECK"
66:     RES= " "
67:     @ L,46 GET RES
68:     READ
69:     @ L,8 SAY SPACE(70)
70:     LOOP
71:   ENDIF
72:   EXIT
73: ENDDO
74: IF ECNT1<0 .OR. ECNT1=0
75:   EXIT
76: ENDIF
77: IF ECNT<ECNT1
78:   RES= " "
79:   @ L,8 SAY &R+ " *ERROR- ENTRY No. DOES NOT EXIST. " GET RES
80:   READ
81:   @ L,8 SAY SPACE(70)
82:   LOOP
83: ENDIF
84: IF ECNT>ECNT1
85:   L1=L-ECNT+ECNT1
86:   IF L1<9 .OR. L1>21
87:     RES= " "
88:     @ L,8 SAY &R+ " *ERROR- ENTRY NO. IS OUT OF RANGE " GET RES
89:     READ
90:     @ L,8 SAY SPACE(70)
91:     LOOP
92:   ENDIF
93: LOCATE FOR ENO=ECNT1 .AND. RNO=WREPNO
94: *****
95: CREC=RECNO()
96: *****
97: D1=CHGDAT
98: D2=SUBSTR(CHGTYP,1,2)
99: D3=CNTRYF
100: D4=CNTRYT
101: D5=RMP
102: D6=BATNO
103: D7=MATDSC
104: D8=ACCEDD
105: D9=ACCFTW
106: DA=ACCUNT
107: DB=ACCFIWT
108: DC=ACCICD
109: DD=CORRNO
110: DE=CORRENO
111: ENDIF
112:
113: @ L1, 7 GET D1 PICTURE '9999999'
114: @ L1,15 GET D2
115: @ L1,18 SAY D3
116: @ L1,23 SAY D4
117: @ L1,28 GET D5
118: @ L1,30 GET D6
119: @ L1,39 GET D7
120: @ L1,45 GET D8

```



```

121: @ L1,48 GET D9 PICTURE '99999999.'
122: @ L1,58 GET DA
123: @ L1,61 GET DB PICTURE '99999999.'
124: @ L1,71 GET DC
125: @ L1,74 GET DD PICTURE '99'
126: @ L1,78 GET DE PICTURE '99'
127: READ
128: SELECT 3
129: LOCATE FOR MBACODE=WBBA .AND. KMP=D5
130: IF .NOT. EOF()
131:   D3=FRKMP
132:   D4=TOKMP
133: ELSE
134:   D3=" "
135:   D4=" "
136: ENDIF
137: @ L1,18 SAY D3
138: @ L1,23 SAY D4
139: * SET WEIGHT OF ELEMENT AND ISOTOPE
140: SELECT 2
141: IF D9<0.
142:   D9=0.
143:   DB=0.
144: ENDIF
145: IF ECNT=ECNT1 .AND. DD=0
146:   IF D9>=0.
147:     DEW=D9
148:     DIW=DB
149:   IF D2<>"LN" .AND. D2<>"NP" .AND. SUBSTR(D2,1,1)<>"R"
150:     LOCATE FOR BATNO=D6 .AND. ACCECD=D8 .AND. ACCICD=DC
151:     DO WHILE .NOT. EOF()
152:       IF BATNO<>D6 .OR. ACCECD<>D8 .OR. ACCICD<>DC
153:         SKIP
154:         LOOP
155:       ENDIF
156:       CREC2=RECNO()
157:       IF CORRNO<>0
158:         SKIP
159:         LOOP
160:       ENDIF
161:       DRNO=RNO
162:       DENO=ENO
163:       LOCATE FOR CORRNO=DRNO .AND. CORRENO=DENO
164:       IF EOF()
165:         GOTO CREC2
166:       ENDIF
167:       IF BATNO<>D6 .OR. ACCECD<>D8 .OR. ACCICD<>DC
168:         GOTO CREC2
169:       SKIP
170:       LOOP
171:     ENDIF
172:     IF CHGTYE="LN "
173:       DEW=DEW-ACCEWT
174:       DIW=DIW-ACCFIWT
175:     ELSE
176:       DEW=ACCEWT
177:       DIW=ACCFIWT
178:     ENDIF
179:     SKIP
180:   ENDDO

```

```

181:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
182:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
183:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
184:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
185:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
186:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
187:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
188:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
189:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
190:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
191:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
192:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
193:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
194:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
195:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
196:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
197:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
198:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
199:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
200:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
201:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
202:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
203:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
204:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
205:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
206:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
207:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
208:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
209:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
210:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
211:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
212:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
213:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
214:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
215:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
216:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
217:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
218:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
219:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
220:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
221:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
222:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
223:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
224:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
225:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
226:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
227:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
228:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
229:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
230:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
231:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
232:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
233:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
234:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
235:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
236:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
237:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
238:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
239:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
240:      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

```

```

241: @ 12,25 SAY "*****"
242: DO WHILE NNN<=EE
243: LOCATE FOR RNO=WREPNO .AND. ENO=NNN
244:
245: D1=CHGDAT
246: D2=SUBSTR(CHGTYP,1,2)
247: D3=CNTRYF
248: D4=CNTRYT
249: D5=KMP
250: D6=BATNO
251: D7=MATDSC
252: D8=ACCECD
253: D9=ACCEWT
254: DA=ACCUNT
255: DB=ACCFIWT
256: DC=ACCICD
257: DD=CORRNO
258: DE=CORRENO
259: ?? &B
260: @ 17,15 SAY "EXECUTING ENTRY NO. ... "+STR(NNN,2)
261:
262: NN=0
263: DO CHKICR WITH NNN
264: IF NN=-2
265: CLEAR
266: AA=" "
267: @ 10,10 SAY &W+"<< PENDING TO CHECK >>"
268: @ 12,10 SAY &G+"
269: READ
270: EXIT
271: ENDIF
272: SELECT 1
273: IF ACCLNO<WQ8
274: ECNT=ECNT-1
275: WQ8=ACCLNO
276: ENDIF
277: SELECT 2
278:
279: NNN=NNN+1
280: ENDDO
281: *****
282: * END *
283: *****
284: IF ECNT1<0
285: IF ECNT-1<Q8
286: ANS=0
287: DIF=Q8-ECNT+1
288: CLEAR
289: ?? &R
290: @ 5,2 SAY "ERO35- NUMBER OF ENTRIES IN HEADER IS .GT. NUMBER OF READ ENTRIES"
291: @ 6,9 SAY "DIFFERENCE IS " + STR(DIF,2)
292: ?? &W
293: @ 7,9 SAY "READ MORE ENTRIES ? (Y/N)"
294: ANS=" "
295: DO WHILE .T.
296: @ 7,38 GET ANS
297: READ
298: IF ANS<>"Y" .AND. ANS<>"N"
299: LOOP
300: ENDIF

```

```

301: ----- | EXIT
302: ----- | ENDDO
303: ----- | IF ANS="Y"
304: ----- | LOOP
305: ----- | ELSE
306: ----- | EXIT
307: ----- | ENDF
308: ----- | ENDF
309: ----- | ENDF
310: ----- | LOOP
311: ----- |
312: ENDDO
313: * CHANGE THE NUMBER OF ENTRIES IN HEADER FILE
314: Q8= ECNT-1
315:
316: RETURN
317:
318: *****
319: PROCEDURE ALLCHK
320: *****
321: CLEAR
322: ?? &Y
323: @ 10,25 SAY "*****"
324: @ 11,25 SAY "** ERROR CHECK **"
325: @ 12,25 SAY "*****"
326: NNN=1
327: DO WHILE NNN<=Q8
328: SELECT 2
329: LOCATE FOR RNO=WREPNO .AND. ENO=NNN
330: IF ERREL=" "
331: | NNN=NNN+1
332: | LOOP
333: | ENDF
334: D1=CHGDAT
335: D2=SUBSTR(CHGTYP,1,2)
336: D3=CNTRYF
337: D4=CNTRYT
338: D5=KMP
339: D6=BATNO
340: D7=MATDSC
341: D8=ACCECD
342: D9=ACCEWT
343: DA=ACCONT
344: DB=ACFLWT
345: DC=ACCICD
346: DD=CORRNO
347: DE=CORRENO
348: ?? &B
349: @ 17,15 SAY "EXECUTING ENTRY NO. ... "+STR(NNN,2)
350:
351: NN=0
352: DO CHKICR WITH NNN
353: IF NN=-2
354: | CLEAR
355: | AA=" "
356: | @ 10,10 SAY &W+"<< PENDING TO CHECK >>"
357: | @ 12,10 SAY &G+"
358: | READ
359: | RETURN
360: | ENDF
          PRESS ANY KEY " GET AA
    
```

```

361: | NNN=NNN+1
362: ENDDO
363: DO SORTBI
364:
365: RETURN
366: *****
367:
368: PROCEDURE CHKICR
369: *****
370: * ICR ENTRY CHECK *
371: *****
372: PARAMETERS N
373:
374: DO WHILE .T.
375: | NOREC=RECNO()
376:
377: -----
378: ERELG=0
379: ERO18=0
380: ERO19=0
381: ERO203=0
382: ERO204=0
383: ERO21=0
384: ERO22=0
385: ERO26=0
386: ERO42=0
387: ERO23=0
388: ERO24=0
389: ERO25=0
390: ERO16=0
391: ERO50=0
392: ERO29=0
393: ERO32=0
394: ERO51=0
395: ERO27=0
396: ERO28=0
397: ERO30=0
398: ERO33=0
399: ERO34=0
400:
401: IF DD=0
402: | DO WHILE .T.
403: | | IF D1>=Q6 .AND. D1<=Q7
404: | | | EXIT
405: | | | ENDIF
406: | *
407: | ERO18=1
408: | ERELG=1
409: | CORFLG=0
410: | * DO CORHED WITH 1
411: | *
412: | IF CORELG=0
413: | | EXIT
414: | | ENDIF
415: | ERO18=0
416: | ERELG=0
417: | CLEAR
418: | ?? &Y
419: | @ 10,25 SAY "*****"
420: | @ 11,25 SAY "* ERROR CHECK *"

```

```

421: @ 12.25 SAY "*****"
422: ?? &B
423: @ 17.15 SAY "EXECUTING ENTRY NO. ... "+STR(N,2)
424: ENDDO
425: ELSE
426: SELECT 1
427: HREC=REGNO()
428: LOCATE FOR REPNO=DD
429: IF DI<REFFRM .OR. DI>REPTO
430: || ERO18=1
431: || ERF1G=1
432: || CORFLG=0
433: ENDIF
434: GOTO HREC
435: ENDDIF
436:
437: IF N>1
438: SELECT 2
439: LOCATE FOR RNO=WREPNO .AND. ENO=1
440: IF SUBSTR(CHGTYP,1,2)="TR" .AND. D2<>"TR"
441: || ERO28=1
442: || ERF1G=1
443: ENDIF
444: IF SUBSTR(CHGTYP,1,2)<>"TR" .AND. D2="TR"
445: || ERO28=1
446: || ERF1G=1
447: ENDIF
448: GOTO NOREC
449: ENDDIF
450:
451: IF D2<>"RF" .AND. D2<>"NP" .AND. D2<>"SF" .AND. D2<>"LN" .AND. D2<>"TR"
452: || IF D2<>"DQ" .AND. D2<>"RD" .AND. D2<>"RS" .AND. D2<>"RN" .AND. D2<>"SD"
453: || IF D2<>"SS" .AND. D2<>"SN" .AND. D2<>"LD" .AND. D2<>"TW" .AND. D2<>"FW"
454: || IF D2<>"EU" .AND. D2<>"EQ" .AND. D2<>"TU" .AND. D2<>"LA" .AND. D2<>"GA"
455: || IF D2<>"DU"
456: || || ERO19=1
457: || || ERF1G=1
458: || ENDIF
459: || ENDIF
460: || ENDIF
461: || ENDIF
462: ENDDIF
463:
464: SELECT 3
465: * IF SUBSTR(D2,1,1)<>"R" .AND. D2<>"NP"
466: * LOCATE FOR MBACODE=WMBA .AND. KMP=SUBSTR(D3,1,1)
467: * IF EOF()
468: * ERF1G=1
469: * ERO203=1
470: * ENDDIF
471: * ENDDIF
472: * IF SUBSTR(D2,1,1)<>"S" .AND. D2<>"LN"
473: * LOCATE FOR MBACODE=WMBA .AND. KMP=SUBSTR(D4,1,1)
474: * IF EOF()
475: * ERF1G=1
476: * ERO204=1
477: * ENDDIF
478: * ENDDIF
479: LOCATE FOR MBACODE=WMBA .AND. KMP=D5
480: IF EOF()

```

```

481:  ERFLG=1
482:  ERO21=1
483:  ENDIF
484:  IF .NOT. EOF()
485:  IF SUBSTR(D2,1,1) <> "S" .AND. SUBSTR(D2,1,1) <> "R"
486:  IF D2 <> "NP" .AND. D2 <> "LN"
487:  IF FRKMP <> D3 .OR. TOKMP <> D4
488:  ERFLG=1
489:  ERO27=1
490:  ENDIF
491:  ENDIF
492:  ENDIF
493:  IF SUBSTR(D2,1,1) = "R" .OR. D2 = "NP"
494:  IF TOKMP <> D4
495:  ERFLG=1
496:  ERO27=1
497:  ENDIF
498:  ENDIF
499:  IF SUBSTR(D2,1,1) = "S" .OR. D2 = "LN"
500:  IF FRKMP <> D3
501:  ERFLG=1
502:  ERO27=1
503:  ENDIF
504:  ENDIF
505:  ENDIF
506:  IF D2 = "LN"
507:  LOCATE FOR MBEACODE=WMBE .AND. KMP <> D5 .AND. FRKMP=D3
508:  IF EOF()
509:  ERFLG=1
510:  ERO30=1
511:  ENDIF
512:  ENDIF
513:
514:
515:
516:  IF D8 <> "D" .AND. D8 <> "N" .AND. D8 <> "E"
517:  IF D8 <> "U" .AND. D8 <> "P" .AND. D8 <> "T"
518:  ERFLG=1
519:  ERO22=1
520:  ENDIF
521:  ENDIF
522:
523:  IF DC <> "G" .AND. DC <> "J" .AND. DC <> "K" .AND. DC <> " "
524:  ERFLG=1
525:  ERO26=1
526:  ENDIF
527:
528:  IF D8 = "E" .AND. DC = " "
529:  ERFLG=1
530:  ERO33=1
531:  ENDIF
532:
533:  IF D8 = "P" .AND. DC <> " "
534:  ERFLG=1
535:  ERO34=1
536:  ENDIF
537:
538:  IF DA <> "K" .AND. DA <> "G"
539:  ERFLG=1
540:  ERO42=1

```

```

541: ENDIF
542: IF D8="P" .OR. D8="E"
543: IF DA<>"G"
544: ERFLG=1
545: ERO23=1
546: ENDIF
547: ENDIF
548: ENDIF
549:
550: IF D8="D" .OR. D8="T" .OR. D8="N"
551: IF DB<>0.0
552: ERFLG=1
553: ERO24=1
554: ENDIF
555: ENDIF
556:
557: IF D2<>"LN" .AND. D9<DB
558: ERFLG=1
559: ERO25=1
560: ENDIF
561:
562: IF SUBSTR(D2,1,1)="R" .AND. DD=0 .AND. ERRFL<>"A"
563: SELECT 5
564: LOCATE FOR BATCH=D6 .AND. BEWEIT > 0 .AND. BIWEIT > 0
565: IF .NOT. EOF()
566: ERFLG=1
567: ERO16=1
568: ENDIF
569: SELECT 2
570: ENDIF
571:
572: IF SUBSTR(D2,1,1)<>"R"
573: SELECT 5
574: LOCATE FOR BATCH=D6 .AND. BEWEIT > 0 .AND. BIWEIT > 0
575: IF EOF()
576: ERFLG=1
577: ERO50=1
578: ENDIF
579: SELECT 2
580: ENDIF
581:
582: IF DD<>0
583: LOCATE FOR RNO=DD .AND. ENO=DE
584: IF EOF() .OR. DD=WREPNO
585: ERFLG=1
586: ERO29=1
587: ENDIF
588: ENDIF
589:
590: M1=SUBSTR(D7,1,1)
591: M2=SUBSTR(D7,2,1)
592: M3=SUBSTR(D7,3,1)
593: M4=SUBSTR(D7,4,1)
594: IF M1<>"J" .AND. M1<>"D" .AND. M1<>"F" .AND. M1<>"G" .AND. M1<>"H"
595: IF M1<>"K" .AND. M1<>"O" .AND. M1<>"N" .AND. M1<>"R"
596: IF M1<>"Q" .AND. M1<>"T" .AND. M1<>"U" .AND. M1<>"V"
597: ERFLG=1
598: ERO32=1
599: ENDIF
600: ENDIF

```



```

601: ENDIF
602: IF M2<>"D" .AND. M2<>"E" .AND. M2<>"G" .AND. M2<>"J" .AND. M2<>"K"
603: IF M2<>"Q" .AND. M2<>"T" .AND. M2<>"U" .AND. M2<>"R" .AND. M2<>"V"
604: IF M2<>"W" .AND. M2<>"X" .AND. M2<>"Y" .AND. M2<>"Z" .AND. M2<>"S"
605: IF M2<>"1" .AND. M2<>"2" .AND. M2<>"3" .AND. M2<>"4" .AND. M2<>"5"
606: IF M2<>"6" .AND. M2<>"7" .AND. M2<>"0"
607: ERFLG=1
608: ERO32=1
609: ENDIF
610: ENDIF
611: ENDIF
612: ENDIF
613: ENDIF
614: IF M3<>"1" .AND. M3<>"2" .AND. M3<>"3" .AND. M3<>"4" .AND. M3<>"5"
615: IF M3<>"6" .AND. M3<>"7" .AND. M3<>"8" .AND. M3<>"A" .AND. M3<>"E"
616: IF M3<>"G" .AND. M3<>"H" .AND. M3<>"J" .AND. M3<>"K" .AND. M3<>"L"
617: IF M3<>"M" .AND. M3<>"N" .AND. M3<>"Q" .AND. M3<>"R" .AND. M3<>"U"
618: IF M3<>"V" .AND. M3<>"0"
619: ERFLG=1
620: ERO32=1
621: ENDIF
622: ENDIF
623: ENDIF
624: ENDIF
625: ENDIF
626: IF M4<>"F" .AND. M4<>"G" .AND. M4<>"A" .AND. M4<>"H" .AND. M4<>"B"
627: IF M4<>"J" .AND. M4<>"C" .AND. M4<>"K" .AND. M4<>"D" .AND. M4<>"L"
628: IF M4<>"E" .AND. M4<>"M"
629: ERFLG=1
630: ERO32=1
631: ENDIF
632: ENDIF
633: ENDIF
634: ENDIF
635: IF SUBSTR(D2,1,1)<>"R" .AND. D2<>"NP"
636: KMPF=" "
637: LOCATE FOR BATNO=D6 .AND. ACCICD=D8 .AND. ACCICD=DC
638: DO WHILE RECNO()<NOREC
639: IF BATNO<>D6 .OR. ACCICD<>D8 .OR. ACCICD<>DC
640: SKIP
641: LOOP
642: ENDIF
643: IF CHGTYP="LN "
644:
645: SELECT 3
646: LOCATE FOR MBACODE=Q3 .AND. KMP<>II->KMP .AND.;
647: FRKMP=II->CNTRYF
648: IF EOF()
649: KMPF=D4
650: ELSE
651: WKKMPF=TKKMP
652: WKKMPF=FRKMP
653: LOCATE FOR MBACODE=Q3 .AND. KMP=SUBSTR(WKKMPF,1,1)
654: IF EOF()
655: KMPF=WKKMPF
656: ELSE
657: KMPF=WKKMPF
658: ENDIF
659: ENDIF
660: SELECT 2

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661: |-----|
662: | | ELSE
663: | | KMPF=CNTRYT
664: | | ENDIF
665: | | SKIP
666: | | ENDDO
667: | | IF D3<>KMPF .AND. DD=0
668: | | | ERFLG=1
669: | | | ERO51=1
670: | | | ENDIF
671: | | ENDIF
672: |-----|
673: | IF ERFLG=0
674: | | LOCATE FOR RNO=WREPNO .AND. ENO=N
675: | | REPLACE ERFL WITH " "
676: | | IF DD<>0
677: | | | NREC=RECNO()
678: | | | WYFN=CHGTYP
679: | | | CRNO=CORRNO
680: | | | CENO=CORRENO
681: | | |
682: | | | LOCATE FOR RNO=CRNO .AND. ENO=CENO
683: | | | WYFP=CHGTYP
684: | | | DATE=CHGDAT
685: | | | NRECI=RECNO()
686: | | | DO CORRBI
687: | | | ENDIF
688: | | | DO UPDTL
689: | | | RETURN
690: | | | ENDIF
691: | | |
692: | | | CLEAR
693: | | |
694: | | | ?? &Y
695: | | | @ 1,2 SAY " DATE TYPE KMP
696: | | | @ 2,2 SAY "ENTRY OF CODE
697: | | | @ 3,2 SAY " INVENT INVT
698: | | | @ 4,2 SAY " NO. CHANGE CHNG FROM TO
699: | | | @ 5,2 SAY " "
700: | | |
701: | | | ?? &W
702: | | | @ 6,3 SAY N PICTURE '99'
703: | | | @ 6,7 SAY D1 PICTURE '999999'
704: | | | @ 6,15 SAY D2
705: | | | @ 6,18 SAY D3
706: | | | @ 6,23 SAY D4
707: | | | @ 6,28 SAY D5
708: | | | @ 6,30 SAY D6
709: | | | @ 6,39 SAY D7
710: | | | @ 6,45 SAY D8
711: | | | @ 6,48 SAY D9 PICTURE '9999999.'
712: | | | @ 6,58 SAY DA
713: | | | @ 6,61 SAY DB PICTURE '99999999.'
714: | | | @ 6,71 SAY DC
715: | | | @ 6,74 SAY DD PICTURE '99'
716: | | | @ 6,78 SAY DE PICTURE '99'
717: | | | L=8
718: | | | ?? &R
719: | | | IF ERO18=1
720: |-----|

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```

721: L=L+1
722: IF L>19
723:   DO SUBCHKICR
724:   L=8
725: ENDIF
726: @ L,2 SAY "ER018- THE DATE OF INVENTORY CHANGE IS OUT OF THE PERIOD IN HEADER"
727: ENDIF
728: IF ER019=1
729:   L=L+1
730:   IF L>19
731:     DO SUBCHKICR
732:     L=8
733:   ENDIF
734: @ L,2 SAY "ER019- THE CODES OF INVENTORY CHANGE DO NOT INCLUDE THE CODE ABOVE"
735: ENDIF
736: IF ER028=1
737:   L=L+1
738:   IF L>19
739:     DO SUBCHKICR
740:     L=8
741:   ENDIF
742: @ L,2 SAY "ER028- THE CODE OF INVENTORY CHANGE 'TR' SHOULD NOT EXIST WITH OTHER CODES"
743: ENDIF
744: IF ER0203=1
745:   L=L+1
746:   IF L>19
747:     DO SUBCHKICR
748:     L=8
749:   ENDIF
750: @ L,2 SAY "ER020- IKMP CODE "+ D3 +" DOES NOT APPEAR IN THIS MBA."
751: ENDIF
752: IF ER0204=1
753:   L=L+1
754:   IF L>19
755:     DO SUBCHKICR
756:     L=8
757:   ENDIF
758: @ L,2 SAY "ER020- IKMP CODE "+ D4 +" DOES NOT APPEAR IN THIS MBA."
759: ENDIF
760: IF ER021=1
761:   L=L+1
762:   IF L>19
763:     DO SUBCHKICR
764:     L=8
765:   ENDIF
766: @ L,2 SAY "ER021- FKMP CODE "+ D5 +" DOES NOT APPEAR IN THIS MBA."
767: ENDIF
768: IF ER027=1
769:   L=L+1
770:   IF L>19
771:     DO SUBCHKICR
772:     L=8
773:   ENDIF
774: @ L,2 SAY "ER027- 'FROM' OR 'TO' KMP CODE OF FKMP DOES NOT MATCH "+;
775:   "WITH MBA-FILE"
776: ENDIF
777: IF ER022=1
778:   L=L+1
779:   IF L>19
780:     DO SUBCHKICR

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781:      | L=8
782:      ENDIF
783:      @ L,2 SAY "ERO22- ELEMENT DOES NOT INCLUDE INDICATED CODE"
784:      ENDIF
785:      IF ERO26=1
786:      L=L+1
787:      IF L>19
788:      DO SUBCHKICR
789:      L=8
790:      ENDIF
791:      @ L,2 SAY "ERO26- ISOTOPE CODE MUST BE 'G','J', OR 'K', '"
792:      ENDIF
793:      IF ERO33=1
794:      L=L+1
795:      IF L>19
796:      DO SUBCHKICR
797:      L=8
798:      ENDIF
799:      @ L,2 SAY "ERO33- ISOTOPE CODE MUST BE 'G','J', OR 'K'"
800:      ENDIF
801:      IF ERO34=1
802:      L=L+1
803:      IF L>19
804:      DO SUBCHKICR
805:      L=8
806:      ENDIF
807:      @ L,2 SAY "ERO34- ISOTOPE CODE MUST BE ' '"
808:      ENDIF
809:      IF ERO42=1
810:      L=L+1
811:      IF L>19
812:      DO SUBCHKICR
813:      L=8
814:      ENDIF
815:      @ L,2 SAY "ERO42- UNIT IS NOT 'K' OR 'G'"
816:      ENDIF
817:      IF ERO23=1
818:      L=L+1
819:      IF L>19
820:      DO SUBCHKICR
821:      L=8
822:      ENDIF
823:      @ L,2 SAY "ERO23- UNIT MUST BE 'G' WHEN ELEMENT CODE IS 'E' OR 'P'"
824:      ENDIF
825:      IF ERO24=1
826:      L=L+1
827:      IF L>19
828:      DO SUBCHKICR
829:      L=8
830:      ENDIF
831:      @ L,2 SAY "ERO24- WEIGHT OF ISOTOPE MUST BE 0. WHEN ELEMENT CODE IS 'D','T', OR 'N'"
832:      ENDIF
833:      IF ERO25=1
834:      L=L+1
835:      IF L>19
836:      DO SUBCHKICR
837:      L=8
838:      ENDIF
839:      @ L,2 SAY "ERO25- WEIGHT OF ELEMENT MUST BE GREATER THAN THAT OF ISOTOPE"
840:      ENDIF

```

```

841: IF ERO16=1
842: L=L+1
843: IF L>19
844: DO SUBCHKICR
845: L=8
846: ENDIF
847: @ L,2 SAY "ER016- SAME NAME OF BATCH APPEARS IN RECEIPT-ENTRY"
848: ENDIF
849: IF ERO50=1
850: L=L+1
851: IF L>19
852: DO SUBCHKICR
853: L=8
854: ENDIF
855: @ L,2 SAY "ER050- NO BATCH NAME"
856: ENDIF
857: IF ERO29=1
858: L=L+1
859: IF L>19
860: DO SUBCHKICR
861: L=8
862: ENDIF
863: @ L,2 SAY "ER029- REPORT/ENTRY NO. OF 'CORRECTION TO DATA' IS NOT IN IC FILE."
864: ENDIF
865: IF ERO32=1
866: L=L+1
867: IF L>19
868: DO SUBCHKICR
869: L=8
870: ENDIF
871: @ L,2 SAY "ER032- MATERIAL DESCRIPTION CODES DO NOT INCLUDE THIS CODE."
872: ENDIF
873: IF ERO51=1
874: L=L+1
875: IF L>19
876: DO SUBCHKICR
877: L=8
878: ENDIF
879: @ L,2 SAY "ER051- THIS BATCH IS NOT FOUND IN THE IKMP."
880: ENDIF
881: IF ERO30=1
882: L=L+1
883: IF L>19
884: DO SUBCHKICR
885: L=8
886: ENDIF
887: @ L,2 SAY "ER030- FKMP( CORE TO STORAGE ) DOES NOT EXIST IN MBA FILE."
888: ENDIF
889:
890: L=L+3
891: RES=" "
892: ?? &G
893: @ L,15 SAY "PRESS ANY KEY"
894: @ L,32 GET RES
895: READ
896: @ L,15 SAY SPACE(20)
897:
898: ?? &Y
899: @ 22,2 SAY "ENTRY NO. : PENDING ENTRY WHEN '-1' , PENDING RECORD WHEN '-2'"
900: @ 23,2 SAY "DELETE WHEN 'D' TO TYPE OF INVENTORY CHANGE"

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901: NN=N
902: DO WHILE .T.
903: @ 6,3 GET NN PICTURE '99'
904: READ
905: IF NN<0
906: | LOCATE FOR RNO=WREPNO .AND. ENO=N
907: | REPLACE ERRFL WITH "*"
908: | RETURN
909: | ENDIF
910: | IF NN<>N
911: | @ 22,2 SAY &R+"YOU CAN'T CORRECT THE OTHER ENTRY,NOW "
912: | NN=N
913: | LOOP
914: | ENDIF
915: | EXIT
916: | ENDDO
917:
918: @ 6, 7 GET D1 PICTURE '9999999'
919: @ 6,15 GET D2
920: @ 6,18 SAY D3
921: @ 6,23 SAY D4
922: @ 6,28 GET D5
923: @ 6,30 GET D6
924: @ 6,39 GET D7
925: @ 6,45 GET D8
926: @ 6,48 GET D9 PICTURE '99999999.'
927: @ 6,58 GET DA
928: @ 6,61 GET DB PICTURE '99999999.'
929: @ 6,71 GET DC
930: @ 6,74 GET DD PICTURE '99'
931: @ 6,78 GET DE PICTURE '99'
932: READ
933:
934: SELECT 2
935: LOCATE FOR RNO=WREPNO .AND. ENO=N
936: IF D2="D " .OR. D2=" D"
937: WENO=ENO
938: DELETE
939: LOCATE FOR RNO=WREPNO .AND. ENO>WENO
940: DO WHILE .NOT. EOF()
941: | REPLACE ENO WITH ENO-1
942: | CONTINUE
943: ENDDO
944: PACK
945: SELECT 1
946: LOCATE FOR REPNO=WREPNO .AND. ICRHEDK=0
947: REPLACE ACCLNO WITH ACCLNO-1
948: SELECT 2
949: RETURN
950: ELSE
951: SELECT 3
952: LOCATE FOR MBACODE=WMBA .AND. KMP=D5
953: IF .NOT. EOF()
954: | D3=FRKMP
955: | D4=TKMP
956: | ELSE
957: | D3=" "
958: | D4=" "
959: ENDIF
960: @ 6,18 SAY D3

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961: @ 6,28 SAY D4
962: SELECT 2
963: REPLACE CHG DAT WITH D1,CHGTYF WITH D2,CNTRYF WITH D3,CNTRYT WITH D4,;
964: KMP WITH D5,BATNO WITH D6,MAIDSC WITH D7
965: REPLACE ACCED WITH D8,ACCEWT WITH D9,ACCUNT WITH DA,ACCFIWT WITH DB,;
966: ACCICD WITH DC,CORRNO WITH DD,CORRENO WITH DE,BATITMS WITH I
967: LOCATE FOR RNO=WREPNO .AND. ENO=N
968: CLEAR
969: ?? &Y
970: @ 10,25 SAY "*****"
971: @ 11,25 SAY "** ERROR CHECK *"
972: @ 12,25 SAY "*****"
973: ?? &B
974: @ 17,15 SAY "EXECUTING ENTRY NO. .... "+STR(N,2)
975: ENDIF
976: ENDDO
977:
978: *****SUBROUTINE FOR CHKICR*****
979: PROCEDURE SUBCHKICR
980: RES=" "
981: @ 22,15 SAY &G+"PRESS ANY KEY " GET RES
982: READ
983: LL=8
984: DO WHILE LL<23
985: @ LL,2 SAY SPACE(77)
986: LL=LL+1
987: ENDDO
988: RETURN
989:
990:
991: *****
992:
993: PROCEDURE CORHED
994: *****
995: * CORRECT HEADER PERIOD *
996: *****
997: PARAMETERS CORHPRM
998: IF CORHPRM=0
999: | N=Q8
1000: ENDIF
1001: IF CORHPRM=1
1002: | CLEAR
1003:
1004: ?? &Y
1005: @ 1,2 SAY " DATE TYPE KMP NAME / MATE- .....ACCOUNTANCY DATA....." CORR-TO "
1006: @ 2,2 SAY "ENTRY OF OF CODE NUMBER RIAL
1007: @ 3,2 SAY " INVENT INVT ELE- WEIGHT UNIT WEIGHT ISO REP ENT"
1008: @ 4,2 SAY " NO. CHANGE CHNG FROM TO BATCH DESC.MENT OF ELEMNT. OF F.I.CODE NO. NO."
1009:
1010: @ 5,2 SAY " --"
1011: ?? &W
1012: @ 6,3 SAY N PICTURE '99'
1013: @ 6,7 SAY D1 PICTURE '9999999'
1014: @ 6,15 SAY D2
1015: @ 6,18 SAY D3
1016: @ 6,23 SAY D4
1017: @ 6,28 SAY D5
1018: @ 6,30 SAY D6
1019: @ 6,39 SAY D7
1020: @ 6,45 SAY D8

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1021: @ 6.48 SAY D9 PICTURE '99999999.'
1022: @ 6.58 SAY DA
1023: @ 6.61 SAY DB PICTURE '99999999.'
1024: @ 6.71 SAY DC
1025: @ 6.74 SAY DD PICTURE '99'
1026: @ 6.78 SAY DE PICTURE '99'
1027: L=10
1028: ?? &R
1029: @ L,2 SAY "ER018- THE DATE OF INVENTORY CHANGE IS OUT OF THE PERIOD IN HEADER"
1030: L=L+2
1031: DO WHILE .T.
1032: RES = " "
1033: ?? &W
1034: @ L,2 SAY "CHANGE THE PERIOD OF THIS REPORT HEADER ? (Y/N)"
1035: @ L,53 GET RES
1036: READ
1037: IF RES="Y" .OR. RES="N"
1038: | EXIT
1039: | ENDIF
1040: ENDDO
1041:
1042: IF RES="N"
1043: | RETURN
1044: |
1045: ENDIF
1046: *=====
1047: WQ5 = Q5
1048: WQ6 = Q6
1049: WQ7 = Q7
1050: *=====
1051: DO WHILE .T.
1052: *
1053: CLEAR
1054: ?? &Y
1055: @ 2.5 SAY "***** IC HEADER INFORMATION *****"
1056: @ 3.5 SAY "*"
1057: @ 4.5 SAY "*****"
1058: @ 6.5 SAY "FACILITY CODE : |NAME : "
1059: @ 7.5 SAY "MBA CODE : |NAME : "
1060: @ 8.5 SAY "REPORT No. : |STR(WREPNO,4)
1061: @ 9.5 SAY "ENTRY DATE : |
1062: @ 10.5 SAY "PERIOD (FROM) : | (TO) : "
1063: @ 11.5 SAY "NUMBER OF ENTRY : "
1064: @ 12.5 SAY "SIGNATURE : "
1065: @ 13.5 SAY " (EXIT WHEN ENTRY DATE IS '-1' )"
1066: ?? &W
1067: @ 6.21 SAY Q1
1068: @ 6.33 SAY Q2
1069: @ 7.21 SAY Q3
1070: @ 7.33 SAY Q4
1071: @ 11.21 SAY Q8 PICTURE '99'
1072: *
1073: @ 9.21 GET Q5 PICTURE '999999'
1074: @ 10.21 GET Q6 PICTURE '999999'
1075: @ 10.35 GET Q7 PICTURE '999999'
1076: @ 12.21 GET Q9
1077:
1078: READ
1079: IF Q5=-1
1080: | Q5 = WQ5

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1081: Q6 = WQ6
1082: Q7 = WQ7
1083: RETURN
1084: ENDIF
1085: * HEADER CHECK
1086: NNREC=RECNO()
1087: SELECT 1
1088: LOCATE FOR REPNO=WREFNO-1
1089: L=13
1090: EREFL=0
1091:
1092: ?? &R
1093: IF Q6 < REPTO
1094: L=L+1
1095: @ L,2 SAY "ER010- 'FROM' DATE IS BEFORE THE LAST DATE OF REPORT."
1096: EREFL=1
1097: ENDIF
1098:
1099: IF Q7 < REPTO
1100: L=L+1
1101: @ L,2 SAY "ER011- 'TO' DATE IS BEFORE THE LAST DATE OF REPORT."
1102: EREFL=1
1103: ENDIF
1104:
1105: IF ICRHEDK=4 .OR. ICRHEDK=6
1106: IF Q6=REPTO
1107: L=L+1
1108: @ L,2 SAY "ER017- STARTING DATE OF ICR IS EQUAL TO LAST PIL."
1109: EREFL=1
1110: ENDIF
1111: ENDIF
1112:
1113: IF Q6>Q7
1114: L=L+1
1115: @ L,2 SAY "ER012- 'FROM' DATE IS AFTER 'TO' DATE."
1116: EREFL=1
1117: ENDIF
1118:
1119: IF Q5<Q6
1120: L=L+1
1121: @ L,2 SAY "ER014- ENTRY DATE IS BEFORE THE PERIOD."
1122: EREFL=1
1123: ENDIF
1124:
1125: * ENTRY CHECK BY CHANGE DATE
1126:
1127: SELECT 2
1128: GOTO NNREC
1129: EREFL=0
1130: LOCATE FOR RNO=WREPNO
1131: NN = 55
1132: DO WHILE RNO=WREPNO .AND. ENO < N
1133: IF CHGDAT<Q6 .OR. CHGDAT>Q7
1134: L = L+1
1135: IF NN>50
1136: NN = 5
1137: ENDIF
1138: ?? &Y
1139: @ L,NN SAY ENO PICTURE '99'
1140: EREFL=1

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1141: | NN=NN+5
1142: | ENDIF
1143: | SKIP
1144: | ENDDO
1145: ?? &R
1146: | IF ERFLG1=1
1147: | L=L+1
1148: | @ L,7 SAY "... ENTRY NO. (DATE OF CHANGE IS OUT OF PERIOD)"
1149: | ENDIF
1150:
1151: | GOTO NNREC
1152:
1153: | IF ERELG=1
1154: | L=L+3
1155: | RES=" "
1156: ?? &G
1157: | @ L,15 SAY "PRESS ANY KEY"
1158: | @ L,32 GET RES
1159: | READ
1160:
1161: | LOOP
1162: | ENDIF
1163: * ANS=" "
1164: L=L+1
1165: | IF ERFLG=0
1166: ?? &Y
1167: | IF CORHPRM=1
1168: | @ L,5 SAY "'-' IS EXIT ',' IS RE-INPUT ',' IS ENTRY"
1169: | ELSE
1170: | @ L,5 SAY "'-' IS EXIT ',' IS RE-INPUT ',' IS CORRECT"
1171: | ENDIF
1172: | ENDIF
1173: | ENDIF
1174: | DO WHILE .T.
1175: | @ L,57 GET ANS
1176: | READ
1177:
1178: | IF ANS<>"-" .AND. ANS<>"," .AND. ANS<>"0"
1179: | LOOP
1180: | ENDIF
1181: | EXIT
1182: | ENDDO
1183: | IF ANS="-"
1184: | Q5 = WQ5
1185: | Q6 = WQ6
1186: | Q7 = WQ7
1187: | RETURN
1188: | ENDIF
1189: | IF ANS=","
1190: | LOOP
1191: | ENDIF
1192: | IF ANS="0"
1193: | IF CORHPRM=1
1194: | CORFLG=1
1195: | ELSE
1196: | SELECT 1
1197: | * IC FILE
1198: | LOCATE FOR REPNO=WREPNO
1199: | REPLACE REPNO WITH WREPNO
1200:

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1201: ----- REPLACE ENTDAT WITH Q5
1202: ----- REPLACE REPRM WITH Q6
1203: ----- REPLACE REPTO WITH Q7
1204: ----- REPLACE SIGNAT WITH Q9
1205: -----
1206: ----- CORFLG=1
1207: ----- RETURN
1208: ----- ENDDIF
1209: ----- ENDDIF
1210: ----- ENDDO
1211: -----
1212: *****
1213: *****
1214: PROCEDURE DSPICK
1215: *****
1216: * CORRECT THE ENTRIES OF IC FILE *
1217: *****
1218: *****
1219: SELECT 1
1220:
1221: LOCATE FOR REPNO=WREPNO
1222: Q6=REPRM
1223: Q7=REPTO
1224:
1225: * HEADER INFORMATION
1226:
1227: CLEAR
1228: ?? &Y
1229: @ 2,5 SAY "***** IC REPORT HEADER INFORMATION *****"
1230: @ 3,5 SAY "*"
1231: @ 4,5 SAY "***** FACILITY CODE : "+FCLCOD *****"
1232: @ 6,5 SAY "FACILITY CODE : "+FCLCOD
1233: @ 6,26 SAY "NAME : "+FCLNAM
1234: @ 7,5 SAY "MBA CODE : "+MBACOD
1235: @ 7,26 SAY "NAME : "+MBANAM
1236: @ 8,5 SAY "REPORT No. : "+STR(REPNO,4)
1237: @ 9,5 SAY "ENTRY DATE : "+STR(ENTDAT,6)
1238: @ 10,5 SAY "PERIOD (FROM) : "+STR(REPRM,6)
1239: @ 10,28 SAY "I(TO) : "+STR(REPTO,6)
1240: @ 11,5 SAY "NUMBER OF ENTRY : "+STR(ACCLNO,2)
1241: @ 12,5 SAY "SIGNATURE : "+SIGNAT
1242: ANS=" "
1243: ?? &G
1244: @ 15,15 SAY "PRESS ANY KEY"
1245: @ 15,32 GET ANS
1246: READ
1247:
1248: * IC-REPORT LISTING
1249: NOENTR=ACCLNO
1250:
1251: SELECT 2
1252:
1253: CNTETR=1
1254: DO WHILE CNTETR<=NOENTR
1255: CLEAR
1256:
1257: ?? &Y
1258: @ 1,2 SAY "***** IC REPORT ENTRY INFORMATION [ REPORT No. = "
1259: @ 1,57 SAY WREPNO PICTURE '999'
1260: @ 1,62 SAY " ] *****"

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1261: @ 3,2 SAY "ENTRY OF DATE TYPE KMP NAME / MATE- ACCOUNTANCY DATA....." CORR-TO "
1262: @ 4,2 SAY "INVENT INVT OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1263: @ 5,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1264: @ 6,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1265: @ 7,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1266: @ 7,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1267: @ 7,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1268: L=9
1269: DO WHILE L<=20 .AND. CNTETR<=NOENTR
1270: SELECT 2
1271: LOCATE FOR RNO=WREPNO .AND. ENO=CNTETR
1272: IF ERRFL=" "
1273: ?? &W
1274: ELSE
1275: ?? &R
1276: ENDIF
1277: @ L,3 SAY CNTETR PICTURE '99'
1278: @ L,7 SAY CHGDAT PICTURE '9999999'
1279: @ L,15 SAY CHGTYP
1280: @ L,18 SAY CNTRYF
1281: @ L,23 SAY CNTRYT
1282: @ L,28 SAY KMP
1283: @ L,30 SAY BATNO
1284: @ L,39 SAY MATDSC
1285: @ L,45 SAY ACCECD
1286: @ L,48 SAY ACCEWT PICTURE '99999999.'
1287: @ L,58 SAY ACCUNT
1288: @ L,61 SAY ACCFIWT PICTURE '999999999.'
1289: @ L,71 SAY ACCICD
1290: @ L,74 SAY CORRNO PICTURE '99'
1291: @ L,78 SAY CORRENO PICTURE '99'
1292: @ L,78 SAY CORRENO PICTURE '99'
1293: L=L+1
1294: CNTETR=CNTETR+1
1295: ENDDO
1296: ANS=" "
1297: @ 23,79 GET ANS
1298: READ
1299: ENDDO
1300: SELECT 1
1301: RETURN
1302: *****
1303: PROCEDURE CORRICR
1304: *****
1305: *****
1306: SCNT=1
1307: CNTETR=1
1308: CLEAR
1309:
1310: ?? &Y
1311: @ 1,2 SAY "***** IC REPORT ENTRY INFORMATION { REPORT No.= "
1312: @ 1,57 SAY WREPNO PICTURE '999'
1313: @ 1,62 SAY " } *****"
1314: @ 3,2 SAY " DATE TYPE KMP NAME / MATE- ACCOUNTANCY DATA....." CORR-TO "
1315: @ 4,2 SAY "INVENT INVT OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1316: @ 5,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1317: @ 6,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1318: @ 7,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1319: @ 7,2 SAY "NO. CHANGE CHNG FROM TO KMP CODE OF BATCH DESC.MENT OF ELEMT. OF F.I.CODE NO. NO."
1320:

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1321: @ 22,2 SAY " EXIT WHEN '-1', ADD ENTRY WHEN 'A',CORRECT ENTRY WHEN ENTRY NO."  
 1322: @ 23,2 SAY " DELETE THE ENTRY WHEN 'D' INDICATED TO TYPE OF INVENTORY CHANGE"  
 1323: L=9

1324: DO WHILE L<=20 .AND. CNTETR<=Q8

1325: SELECT 2

1326: LOCATE FOR RNO=WREPNO .AND. ENO=CNTETR

1327: IF ERRPL=" "

1328: ?? &W

1329: ELSE

1330: ?? &R

1331: ENDIF

1332: @ L,3 SAY CNTETR PICTURE '99'

1333: @ L,7 SAY CHGDAT PICTURE '999999'

1334: @ L,15 SAY CHGTYP

1335: @ L,18 SAY CNTRYF

1336: @ L,23 SAY CNTRYT

1337: @ L,28 SAY KMP

1338: @ L,30 SAY BATNO

1339: @ L,39 SAY MATDSC

1340: @ L,45 SAY ACCECD

1341: @ L,48 SAY ACCEWT PICTURE '99999999.'

1342: @ L,58 SAY ACCUNT

1343: @ L,61 SAY ACCFIWT PICTURE '99999999.'

1344: @ L,71 SAY ACCICD

1345: @ L,74 SAY CORRNO PICTURE '99'

1346: @ L,78 SAY CORRENO PICTURE '99'

1347: L=L+1

1348: CNTETR=CNTETR+1

1349: ENDDO

1350: DO WHILE .T.

1351: A=" "

1352: @ 22,70 GET A

1353: READ

1354: IF A="-1"

1355: \* DO SORTBI

1356: RETURN

1357: ENDIF

1358: IF A="A " .OR. A=" A"

1359: SELECT 1

1360: WLNO=ACCLNO

1361: CNTETR=WLNO+1

1362: REPLACE ACCLNO WITH WLNO+1

1363: SELECT 2

1364: LOCATE FOR RNO=WREPNO .AND. ENO=WLNO

1365: ELSE

1366: CNTETR=VAL(A)

1367: SELECT 2

1368: LOCATE FOR RNO=WREPNO .AND. ENO=CNTETRD

1369: IF EOF()

1370: AA=" "

1371: @ L+2,2 SAY &R+"THERE IS NO INDICATED ENTRY" GET AA

1372: READ

1373: @ L+2,2 SAY SPACE (75)

1374: LOOP

1375: ENDIF

1376: ENDIF

1377: D1=CHGDAT

1378: 1379: 1380:

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1381: D2=SUBSTR(CHGTYP,1,2)
1382: D3=CNTRYF
1383: D4=CNTRYT
1384: D5=KMP
1385: D6=BATNO
1386: D7=MAIDSC
1387: D8=ACCECD
1388: D9=ACCEWT
1389: DA=ACCUPT
1390: DB=ACCFIWT
1391: DC=ACCICD
1392: DD=CORRNO
1393: DE=CORRENO
1394: WTYP=CHGTYP
1395:
1396: IF CNTETRD < SCNT .OR. SCNT+11 < CNTETRD
1397: SCNT=CNTETRD -1
1398: IF SCNT < 1
1399: SCNT=1
1400: ENDIF
1401: CNTETR=SCNT
1402:
1403: CLEAR
1404:
1405: ?? &Y
1406: @ 1,2 SAY "***** IC REPORT ENTRY INFORMATION [ REPORT No.="
1407: @ 1,57 SAY "WREPNO PICTURE '999'"
1408: @ 1,62 SAY " J *****"
1409: @ 3,2 SAY " DATE TYPE KMP NAME / MATE- .....ACCOUNTANCY DATA....."
1410: @ 4,2 SAY "ENTRY OF CODE NUMBER RIAL CORR-TO "
1411: @ 5,2 SAY " INVENT INVT OF ELE- WEIGHT UNIT WEIGHT ISO REP ENT"
1412: @ 6,2 SAY " NO. CHANGE CHNG FROM TO BATCH DESC.MENT OF ELEM. OF F.I.CODE NO. NO."
1413:
1414: @ 7,2 SAY " -----"
1415: @ 22,2 SAY "EXIT WHEN '-1', ADD ENTRY WHEN 'A' CORRECT ENTRY WHEN ENTRY NO."
1416: @ 23,2 SAY "DELETE THE ENTRY WHEN 'D' INDICATED TO TYPE OF INVENTORY CHANGE"
1417: L=9
1418: DO WHILE L<=20 .AND. CNTETR<=Q8
1419: SELECT 2
1420: LOCATE FOR RNO=WREPNO .AND. ENO=CNTETR
1421: IF ERRFL=" "
1422: ?? &W
1423: ELSE
1424: ?? &R
1425: ENDIF
1426: @ L,3 SAY CNTETR PICTURE '99'
1427: @ L,7 SAY CHGDAT PICTURE '9999999'
1428: @ L,15 SAY CHGTYP
1429: @ L,18 SAY CNTRYF
1430: @ L,23 SAY CNTRYT
1431: @ L,28 SAY KMP
1432: @ L,30 SAY BATNO
1433: @ L,39 SAY MAIDSC
1434: @ L,45 SAY ACCECD
1435: @ L,48 SAY ACCEWT PICTURE '99999999'
1436: @ L,58 SAY ACCUPT
1437: @ L,61 SAY ACCFIWT PICTURE '99999999'
1438: @ L,71 SAY ACCICD
1439: @ L,74 SAY CORRNO PICTURE '99'
1440: @ L,78 SAY CORRENO PICTURE '99'

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1441:
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1499:
1500:
-----
L=L+1
CNTETR=CNTETR+1
ENDDO
L1=10
ELSE
LJ=CNTETRD-SCNT+9
ENDIF
IF A="A " .OR. A=" A"
Q8=HD->ACCLNO
INSERT BLANK
REPLACE RNO WITH WREPNO,ENO WITH CNTETRD,ICRDTLK WITH 2
REPLACE MBA WITH WMBA,BATITMS WITH 1
@ L1,3 SAY WLNO+1 PICTURE '99'
ELSE
IF ERREL=" "
DO CORRBI
SELECT 2
ENDIF
ENDIF
@ L1, 7 GET D1 PICTURE '9999999'
@ L1,15 GET D2
@ L1,18 SAY D3
@ L1,23 SAY D4
@ L1,28 GET D5
@ L1,30 GET D6
@ L1,39 GET D7
@ L1,45 GET D8
@ L1,48 GET D9 PICTURE '99999999.'
@ L1,58 GET DA
@ L1,61 GET DB PICTURE '99999999.'
@ L1,71 GET DC
@ L1,74 GET DD PICTURE '99'
@ L1,78 GET DE PICTURE '99'
READ
SELECT 3
LOCATE FOR MBACODE=WMBA .AND. KMP=D5
IF .NOT. EOF()
D3=FRAMP
D4=TOKMP
ELSE
D3=" "
D4=" "
ENDIF
@ L1,18 SAY D3
@ L1,23 SAY D4
SELECT 2
IF D2="D " .OR. D2=" D"
WENO=ENO
DELETE
LOCATE FOR RNO=WREPNO .AND. ENO>WENO
DO WHILE .NOT. EOF()
REPLACE ENO WITH ENO-1
CONTINUE
ENDDO
PACK
SELECT 1
LOCATE FOR REPNO=WREPNO .AND. ICRHEDK=0

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1501: REPLACE ACCLNO WITH ACCLNO-1
1502: Q8=ACCLNO
1503: ELSE
1504: SELECT 2
1505: LOCATE FOR RNO=WREPNO .AND. ENO=CNTETRD
1506: REPLACE CHGDAT WITH D1,CHGTYP WITH D2,CNTRYF WITH D3,CNTRYT WITH D4,;
1507: RMP WITH D5,BAINO WITH D6,MATDSC WITH D7
1508: REPLACE ACCCED WITH D8,ACCCEWT WITH D9,ACCUNT WITH DA,ACCFIWT WITH DB,;
1509: ACCICD WITH DC,CORRRNO WITH DD,CORRENO WITH DE,BATITMS WITH 1
1510: IF BAINO=D6
1511: | REPLACE ERRFL WITH "A"
1512: | ELSE
1513: | | REPLACE ERRFL WITH "*"
1514: | ENDIF
1515: | ENDIF
1516: ENDDO
1517: *****
1518: *****
1519: *****
1520: PROCEDURE UPDTBI
1521: *****
1522: * UPDATE BI ENTRY *
1523: *****
1524: *****
1525: *****
1526: WMBA=HD->MBACOD
1527: WORG=HD->USRCOD
1528: WFCL=HD->FCLCOD
1529: WDAT=HD->ENTDAT
1530: WTYP=SUBSTR(II->CHGTYP,1,2)
1531: WBAT=II->BAINO
1532: WELM=II->ACCCECD
1533: WISO=II->ACCICD
1534: *****
1535: IF WTYP="LN"
1536: SELECT 3
1537: LOCATE FOR MBACODE=WMBA .AND. KMP <>II->KMP .AND. FRKMP=II->CNTRYF
1538: IF .NOT. EOF()
1539: | KMPC=SUBSTR(TOKMP,1,1)
1540: | LOCATE FOR MBACODE=WMBA .AND. KMP=KMPC
1541: | IF .NOT. EOF()
1542: | | KMPB=SUBSTR(II->CNTRYF,1,1)
1543: | SELECT 5
1544: | LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. BFCL=WFCL .AND. ;
1545: | BATCH=WBAT .AND. BELM=WELM .AND. BISO=WISO .AND. ;
1546: | BKMP=KMPB
1547: | IF .NOT. EOF()
1548: | | WEWT=BWEIT
1549: | | WIWT=BIWEIT
1550: | | REPLACE BEWEIT WITH 0
1551: | | REPLACE BIWEIT WITH 0
1552: | | REPLACE BDATE WITH WDAT
1553: | | ELSE
1554: | | WEWT=0
1555: | | WIWT=0
1556: | ENDIF
1557: LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. BFCL=WFCL .AND. ;
1558: BATCH=WBAT .AND. BELM=WELM .AND. BISO=WISO .AND. ;
1559: BKMP=KMPB
1560: *****

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1561: IF EOF()
1562: APPEND BLANK
1563: REPLACE BMBA WITH WMBA,BORG WITH WORG,BFCL WITH WFCL,;
1564: BBATCH WITH WBAT,BELM WITH WELM, BISO WITH WISO,;
1565: BKMP WITH KMPC,BDATE WITH WDAT
1566: ENDIF
1567: REPLACE BEWEIT WITH BEWEIT+WWT-II->ACCEWT
1568: REPLACE BIWEIT WITH BIWEIT+WWT-II->ACCFIWT
1569: REPLACE BDATE WITH WDAT
1570:
1571: RETURN
1572: ENDIF
1573: ENDIF
1574: ENDIF
1575:
1576: SELECT 5
1577: LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. BFCL=WFCL .AND. ;
1578: BBATCH=WBAT .AND. BELM=WELM .AND. BISO=WISO .AND. ;
1579: BKMP=SUBSTR(II->CNTRYF,1,1)
1580:
1581: IF EOF()
1582: APPEND BLANK
1583: REPLACE BMBA WITH WMBA,BORG WITH WORG,;
1584: BFCL WITH WFCL,BBATCH WITH WBAT,BELM WITH WELM,;
1585: BISO WITH WISO, BKMP WITH II->CNTRYF
1586: ENDIF
1587:
1588: REPLACE BEWEIT WITH BEWEIT-II->ACCEWT
1589: REPLACE BIWEIT WITH BIWEIT-II->ACCFIWT
1590: REPLACE BDATE WITH HD->ENTDAT
1591:
1592: LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. BFCL=WFCL .AND. ;
1593: BBATCH=WBAT .AND. BELM=WELM .AND. BISO=WISO .AND. ;
1594: BKMP=SUBSTR(II->CNTRYT,1,1)
1595:
1596: IF EOF()
1597: APPEND BLANK
1598: REPLACE BMBA WITH WMBA,BORG WITH WORG,;
1599: BFCL WITH WFCL,BBATCH WITH WBAT,BELM WITH WELM,;
1600: BISO WITH WISO,BKMP WITH II->CNTRYT
1601: ENDIF
1602:
1603: REPLACE BEWEIT WITH BEWEIT+II->ACCEWT
1604: REPLACE BIWEIT WITH BIWEIT+II->ACCFIWT
1605: REPLACE BDATE WITH HD->ENTDAT
1606:
1607: RETURN
1608:
1609: *****
1610: *****
1611: PROCEDURE CORRBI
1612: *****
1613: * UPDATE BI FILE BY CORRECTION DATA *
1614: *****
1615: *****
1616: WMBA=HD->MBACOD
1617: WORG=HD->USRCOD
1618: WFCL=HD->FCLCOD
1619: WDAT=HD->ENTDAT
1620: WTYP=WTYP

```

```

1621: WBAT=D6
1622: WELM=D8
1623: WISO=DC
1624:
1625: *-----*
1626: * BOOK INVENTORY*
1627: *-----*
1628: IF WTYP="LN"
1629:   SELECT 3
1630:
1631:   LOCATE FOR MBACODE=WMBA .AND. KMP<>D5 .AND. FRKMP=D3
1632:   IF .NOT. EOF()
1633:     KMPC=SUBSTR(TOKMP,1,1)
1634:     LOCATE FOR MBACODE = WMBA .AND. KMP=KMPC
1635:     IF .NOT. EOF()
1636:       KMPB=D3
1637:       SELECT 2
1638:       WNRREC=RECNO()
1639:       WCHG=D1
1640:       WE=0
1641:       WI=0
1642:       LOCATE FOR ERRFL=" " .AND. D1>WCHG .AND. D6=WBAT .AND.;
1643:       D8=WELM .AND. DC=WISO .AND.;
1644:       (SUBSTR(D3,1,1)=KMPC .OR. SUBSTR(D4,1,1)=KMPC)
1645:       IF .NOT. EOF()
1646:         DO WHILE .NOT. EOF()
1647:           IF WTYP = "NP"
1648:             WE=WE-D9
1649:             WI=WI-DB
1650:           ELSE
1651:             WE=WE+D9
1652:             WI=WI+DB
1653:           ENDIF
1654:           CONTINUE
1655:         ENDDO
1656:       SELECT 2
1657:       GOTO WNRREC
1658:     ELSE
1659:       SELECT 5
1660:       LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. BFCL=WFCL .AND.;
1661:       BBATCH=WBAT .AND. BELM=WELM .AND. BISO=WISO .AND.;
1662:       BKMP=KMPC
1663:       IF .NOT. EOF()
1664:         WE=BEWEIT
1665:         WI=BIWEIT
1666:       ENDIF
1667:     ENDIF
1668:
1669:   SELECT 5
1670:   LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. BFCL=WFCL .AND.;
1671:   BBATCH=WBAT .AND. BELM=WELM .AND. BISO=WISO .AND.;
1672:   BKMP=KMPB
1673:   IF EOF()
1674:     APPEND BLANK
1675:     REPLACE BMBA WITH WMBA, BORG WITH WORG, BFCL WITH WFCL;
1676:     BBATCH WITH WBAT, BELM WITH WELM, BISO WITH WISO;
1677:     BKMP WITH KMPB
1678:   ENDIF
1679:   REPLACE BEWEIT WITH BEWEIT + WE + D9
1680:   REPLACE BIWEIT WITH BIWEIT + WI + DB

```

```

1681: -----
1682: REPLACE BDATE WITH WDAT
1683: -----
1684: LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. BFCL=WFCL .AND. ;
1685: BBATCH=WBAT .AND. BELM=WELM .AND. BISO=WISO .AND. ;
1686: BKMP=KMPC
1687: -----
1688: IF EOF()
1689: | APPEND BLANK
1690: | REPLACE BMBA WITH WMBA, BORG WITH WORG, BFCL WITH WFCL, ;
1691: | BBATCH WITH WBAT, BELM WITH WELM, BISO WITH WISO, ;
1692: | BKMP WITH KMPC
1693: | ENDIF
1694: | REPLACE BEWEIT WITH BEWEIT - WE
1695: | REPLACE BIWEIT WITH BIWEIT - WI
1696: | REPLACE BDATE WITH WDAT
1697: -----
1698: ENDIF
1699: ELSE
1700: | SELECT 5
1701: | IF SUBSTR (WTYP,1,1) <> "R"
1702: | LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. ;
1703: | BFCL=WFCL .AND. BBATCH =WBAT .AND. ;
1704: | BELM=WELM .AND. BISO=WISO .AND. ;
1705: | BKMP=SUBSTR(D3,1,1)
1706: | IF EOF()
1707: | | APPEND BLANK
1708: | | REPLACE BMBA WITH WMBA, BORG WITH WORG
1709: | | REPLACE BFCL WITH WFCL, BBATCH WITH WBAT
1710: | | REPLACE BELM WITH WELM, BISO WITH WISO
1711: | | REPLACE BKMP WITH D3
1712: | | ENDIF
1713: | |
1714: | | REPLACE BEWEIT WITH BEWEIT +D9
1715: | | REPLACE BIWEIT WITH BIWEIT +DB
1716: | | REPLACE BDATE WITH HD->ENTDAT
1717: | |
1718: | ENDIF
1719: | IF SUBSTR (WTYP,1,1) <> "S"
1720: | LOCATE FOR BMBA=WMBA .AND. BORG=WORG .AND. ;
1721: | BFCL=WFCL .AND. BBATCH =WBAT .AND. ;
1722: | BELM=WELM .AND. BISO=WISO .AND. ;
1723: | BKMP=SUBSTR(D4,1,1)
1724: | IF EOF()
1725: | | APPEND BLANK
1726: | | REPLACE BMBA WITH WMBA, BORG WITH WORG
1727: | | REPLACE BFCL WITH WFCL, BBATCH WITH WBAT
1728: | | REPLACE BELM WITH WELM, BISO WITH WISO
1729: | | REPLACE BKMP WITH D4
1730: | | ENDIF
1731: | | REPLACE BEWEIT WITH BEWEIT-D9
1732: | | REPLACE BIWEIT WITH BIWEIT-DB
1733: | | REPLACE BDATE WITH HD->ENTDAT
1734: | | ENDIF
1735: | ENDIF
1736: | SELECT 5
1737: | DELE FOR BEWEIT=0 .AND. BIWEIT=0
1738: | RETURN
1739: |
1740: | *****

```

```

1741: PROCEDURE SORTBI
1742: *****
1743: SELECT 5
1744: CLEAR
1745: ?? &Y
1746: @ 1,1,0 SAY "*** BOOK INVENTORY CHECK***"
1747: L=3
1748: ECNT=0
1749: DELE FOR BEWEIT=0 .AND. BIWEIT=0
1750: GOTO TOP
1751: DO WHILE .NOT. EOF ( )
1752:   KMPC=BB->BKMP
1753:   SELECT 3
1754:   LOCATE FOR MBACODE=WMBA .AND. SUBSTR(KMPC,1,1)=KMP
1755:   IF EOF ( )
1756:     SELECT 5
1757:     DELETE
1758:     SKIP
1759:     LOOP
1760:   ENDIF
1761:   SELECT 5
1762:   IF BEWEIT<0
1763:     ECNT=ECNT+1
1764:     L=L+1
1765:     @ L,5 SAY "KMP("+BKMP+") ELEMENT WEIGHT IS "+STR(BEWEIT)
1766:   ENDIF
1767:   IF BIWEIT<0
1768:     ECNT=ECNT+1
1769:     L=L+1
1770:     @ L,5 SAY "KMP("+BKMP+") ISOTOPE WEIGHT IS "+STR(BIWEIT)
1771:   ENDIF
1772:   IF L>21
1773:     AA=" "
1774:     @ L,60 SAY &G+"PRESS ANY KEY " GET AA
1775:   READ
1776:   L=3
1777:   DO WHILE L<23
1778:     ! @ L,5 SAY SPACE(70)
1779:     ENDDO
1780:     L=3
1781:   ENDIF
1782:   SKIP
1783: ENDDO
1784: PACK
1785: AA=" "
1786: @ L,55 SAY &G+"PRESS ANY KEY " GET AA
1787: READ
1788: * SORT ON BKMP,BELM+BISO+BBATCH TO WK
1789: SORT ON BKMP,BELM,BISO,BBATCH TO WK
1790: DELE ALL
1791: PACK
1792: APPEND FROM WK
1793: ERASE WK
1794: RETURN

```

```

1: *****
2: * CREATE PII AND MBR FILE *
3: *****
4:
5: SET PROCEDURE TO FILMBR
6: *PUBLIC WREPNO,Q6,Q8,Q3,SYMD,FYMD,MENTRY
7: PUBLIC Q8
8:
9: CLEAR
10:
11: @ 1,10 SAY &Y+*****
12: @ 2,10 SAY &Y+***** CREATE PII AND MBR *****
13: @ 3,10 SAY &Y+*****
14: @ 7,10 SAY &Y+***** MBA CODE : "
15: @ 17,11 SAY &Y+***** EXIT WHEN BLANK"
16:
17: Q=" "
18: DO WHILE .T.
19: @ 7,40 GET Q
20: READ
21: IF Q=" "
22: | RETURN
23: | ENDIF
24:
25: * SET FACILITY CODE, NAME, MBA CODE AND NAME
26: IF .NOT. FILE("A\FAC.DBF")
27: | @ 20,20 SAY &R+"FACILITY DEFINITION FILE DOES NOT EXIST"
28: | AA=" "
29: | @ 20,65 GET AA
30: | READ
31: | @ 20,20 SAY SPACE(55)
32: | CLOSE DATABASES
33: | CLOSE PROCEDURE
34: | RETURN
35: | ENDIF
36:
37: USE A_FAC
38: GO TOP
39: QC=CODE
40: QN=NAME
41: SKIP
42: FCLCOD=CODE
43: FCLNAM=NAME
44: LOCATE FOR CODE=Q
45: IF EOF()
46: | @ 20,20 SAY &R+"MBA CODE (" + Q + ")" DOES NOT EXIST IN FACILITY FILE"
47: | AA=" "
48: | @ 20,69 GET AA
49: | READ
50: | @ 20,20 SAY SPACE(55)
51: | LOOP
52: | ENDIF
53: Q3=CODE
54: Q4=NAME
55:
56: * SET FILE NAME
57: IF .NOT. FILE("A_MBANO.DBF")
58: | @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"
59: | AA=" "
60: | @ 20,65 GET AA

```

```

61: READ
62: @ 20,20 SAY SPACE(55)
63: CLOSE DATABASES
64: CLOSE PROCEDURE
65: RETURN
66: ENDIF
67:
68: USE A_MBA
69: LOCATE FOR MBA=Q
70: IF EOF()
71: @ 20,20 SAY &R+"MBA CODE("+Q+") DOES NOT EXIST IN MBA FILE "
72: AA=" "
73: @ 20,69 GET AA
74: READ
75: @ 20,20 SAY SPACE(55)
76: LOOP
77: ENDIF
78: NN = LTRIM(STR(RECNO()))
79: FNAME1="A_HEAD"-NN
80: FNAME2="A_IC"-NN
81: FNAME3="A_PIL"-NN
82: FNAME4="A_MBR"-NN
83: FNAME5="A_MBA"
84: IF PILOPT= 2 .AND. .NOT. FILE("&FNAME2..DBF")
85: @ 20,20 SAY &R+"THERE IS NO REPORT FOR THIS MBA
86: AA=" "
87: @ 20,65 GET AA
88: READ
89: @ 20,20 SAY SPACE(55)
90: LOOP
91: ENDIF
92: EXIT
93: ENDDO
94:
95: *CREATE DUMMY2 FROM STR_HEAD
96: IF .NOT. FILE("&FNAME1..DBF")
97: *SELECT 1
98: *CREATE &FNAME1 FROM STR_HEAD
99: COPY FILE STR_HEAD.DBF TO &FNAME1..DBF
100: ENDIF
101:
102: IF .NOT. FILE("&FNAME3..DBF")
103: *SELECT 3
104: *CREATE &FNAME3 FROM STR_PIL
105: COPY FILE STR_PIL.DBF TO &FNAME3..DBF
106: ENDIF
107: IF .NOT. FILE("&FNAME4..DBF")
108: *SELECT 4
109: *CREATE &FNAME4 FROM STR_MBR
110: COPY FILE STR_MBR.DBF TO &FNAME4..DBF
111: ENDIF
112:
113: SELECT 1
114: USE &FNAME1 ALIAS HH
115: IF FILE("&FNAME2..DBF")
116: SELECT 2
117: USE &FNAME2 ALIAS II
118: ENDIF
119: SELECT 3
120: USE &FNAME3 ALIAS PP

```

```

121: SELECT 4
122: USE &FNAM4 ALIAS MM
123: SELECT 5
124: USE &FNAM5 ALIAS MB
125:
126: * HEADER INFORMATION INPUT
127: SELECT 1
128: GOTO 1
129: FYMD=REPFRM
130: DO WHILE .T.
131: IF EOF()
132:   EXIT
133: ENDIF
134: IF ICRHEDK=6 .AND. AUTHOF<>"*"
135:   FYMD=REPTO
136: ENDIF
137: IF ICRHEDK<>1
138:   WREPNO=REPNO
139: ENDIF
140: SKIP
141: ENDDO
142:
143: LOCATE FOR REPNO=WREPNO
144: WREPNO=REPNO+1
145: STORE FCLCOD TO Q1
146: STORE FCLNAM TO Q2
147: STORE MBACOD TO Q3
148: STORE MBANAM TO Q4
149: STORE ENTDAT TO Q5
150: STORE REPFEM TO Q6
151: STORE REPTO TO Q7
152: STORE ACLNO TO Q8
153: STORE SIGNAT TO Q9
154: STORE ICRHEDK TO Q10
155: STORE PILDAT TO Q11
156:
157: CLEAR
158: DO WHILE .T.
159:
160: CLEAR
161: ?? &Y
162: @ 2,5 SAY "*"***** PIL HEADER INFORMATION*****"
163: @ 3,5 SAY "*"
164: @ 4,5 SAY "*****"*****"*****"*****"
165: @ 6,5 SAY "ORGANIZATION CODE : NAME :*"
166: @ 7,5 SAY "FACILITY CODE : NAME :*"
167: @ 8,5 SAY "MBA CODE : "STR(WREPNO,4)
168: @ 9,5 SAY "REPORT No.
169: @ 10,5 SAY "ENTRY DATE
170: @ 11,5 SAY "PIL DATE
171: IF PILOPT=1
172:   L=12
173:   @ L,5 SAY "NUMBER OF ENTRY : "
174: ELSE
175:   L=11
176: ENDIF
177: @ L+1,5 SAY "SIGNATURE : "
178: @ L+2,5 SAY " (EXIT WHEN ENTRY DATE IS '-1') "
179:
180: ?? &W

```

```

181: @ 6,24 SAY QC
182: @ 6,36 SAY QN
183: @ 7,24 SAY Q1
184: @ 7,36 SAY Q2
185: @ 8,24 SAY Q3
186: @ 8,36 SAY Q4
187: @ 10,24 GET Q5 PICTURE '9999999'
188: @ 11,24 GET Q11 PICTURE '9999999'
189: IF PILOPT=1
190: | @ L,21 GET Q8 PICTURE '99'
191: ENDIF
192: @ L+1,24 GET Q9
193: READ
194:
195: Q6=Q11
196: SYMD=Q6
197:
198: IF Q5=-1
199: | CLOSE DATABASES
200: | CLOSE PROCEDURE
201: | RETURN
202: ENDIF
203: * HEADER CHECK
204: L=13
205: ERFLG=0
206:
207: ?? &R
208: IF Q6 < REPTO
209: | L=L+1
210: | @ L,2 SAY "ERO10- 'PIL' DATE IS BEFORE THE LAST DATE OF REPORT."
211: | ERFLG=1
212: ENDIF
213: SELECT 1
214: IF EOF()
215: | L=L+1
216: | @ L,2 SAY "ERO31- NOT AUTHORIZED IC REPORT EXIST."
217: | ERFLG=1
218: ENDIF
219: LOCATE FOR ICRHEDK=0 .AND. AUTHOF=" " .AND. ENTDAT<Q11
220: IF .NOT. EOF()
221: | L=L+1
222: | @ L,2 SAY "ERO31- NOT AUTHORIZED IC REPORT EXIST."
223: | ERFLG=1
224: ENDIF
225:
226: IF PILOPT=1
227: | IF Q8=0
228: | | L=L+1
229: | | @ L,2 SAY "ERO15- NUMBER OF ENTRY IS 0."
230: | | ERFLG=1
231: | ENDIF
232: ENDIF
233:
234: ANS=" "
235: L=L+1
236:
237: IF ERFLG=1
238: | @ L,79 GET ANS
239: | READ
240: | LOOP

```



```

241: ENDIF
242: IF ERFLG=0
243: ?? &Y
244: @ L,5 SAY "'-' IS EXIT, ':' IS RE-INPUT, '0' IS INPUT ENTRY"
245: ENDIF
246: DO WHILE .T.
247: @ L,56 GET ANS
248: READ
249: IF ANS<>"-" .AND. ANS<>":" .AND. ANS<>"0"
250: !! LOOP
251: ENDIF
252: EXIT
253: ENDDO
254: IF ANS="-"
255: CLOSE DATABASES
256: CLOSE PROCEDURE
257: RETURN
258: ENDIF
259: IF ANS=":"
260: !! LOOP
261: ENDIF
262: IF ANS="0"
263: !! EXIT
264: ENDIF
265: ENDDO
266: ENDDO
267:
268: IF ERFLG=1
269: L= L+1
270: @ L,1 SAY "ER052- BAD DATA FOR FILE HEADER"
271: CLOSE DATABASES
272: CLOSE PROCEDURE
273: RETURN
274: ENDIF
275:
276: IF PILOPT=1
277: DO REDPIL
278: ENDIF
279:
280: IF PILOPT=2
281: @ 20,25 SAY &B+"CREATING PIL FILE ..... "
282: DO PILFL
283: @ 20,25 SAY &W+"PIL FILE COMPLETE CREATED "
284: ENDIF
285:
286: SELECT 1
287: APPEND BLANK
288: REPLACE FCLCOD WITH Q1
289: REPLACE FCLNAM WITH Q2
290: REPLACE MBACOD WITH Q3
291: REPLACE MBANAM WITH Q4
292: REPLACE REPNAM WITH WREPNO
293: REPLACE REPRNO WITH Q6
294: REPLACE REPRFRM WITH Q5
295: REPLACE REPTO WITH Q
296: REPLACE ACCLNO WITH Q8
297: REPLACE SIGNAT WITH Q9
298: REPLACE ICRHEDK WITH 4
299: REPLACE USRCOD WITH QC
300:

```

```

301: REPLACE USRNAM WITH QN
302: REPLACE PILDAT WITH Q11
303:
304: APPEND BLANK
305: REPLACE FCLCOD WITH Q1
306: REPLACE FCLNAM WITH Q2
307: REPLACE MBACOD WITH Q3
308: REPLACE MBANAM WITH Q4
309: REPLACE REPN0 WITH WREPNO+1
310: REPLACE ENTDAT WITH Q5
311: REPLACE REPRM WITH FYND
312: REPLACE REPTO WITH SYND
313: REPLACE ACCNO WITH Q8
314: REPLACE SIGNAT WITH Q9
315: REPLACE ICRHEDK WITH 6
316: REPLACE USRCOD WITH QC
317: REPLACE USRNAM WITH QN
318: ENN=0
319:
320: IF PILOPT=1
321:   CLEAR
322:   DO CORRPII
323:   DO CORMBR
324: ENDIF
325:
326: @ 22,25 SAY &B+"CREATING MBR FILE ..... "
327: WREPNO=WREPNO+1
328: DO MBRFL
329: @ 22,25 SAY &W+"MBR FILE COMPLETE CREATED "
330:
331: SELECT 1
332: LOCATE FOR REPN0=WREPNO
333: REPLACE ACCNO WITH Q8
334:
335: CLOSE DATABASES
336: CLOSE PROCEDURE
337: RETURN

```

```

1: *****
2: * CREATE INPUT OUTPUT TRANSFER LIST ROUTINE *
3: * 1985/12/13 BY H.H.*
4: *****
5:
6: SET PROCEDURE TO IOPRT
7:
8: PUBLIC FYMD ,WMBA ,WORG ,WFCL
9:
10: CLEAR
11:
12: @ 1,10 SAY &Y+ "*****"
13: @ 2,10 SAY &Y+ "*****" CREATE INPUT OUTPUT TRANSFER LIST *****
14: @ 3,10 SAY &Y+ "*****"
15: @ 7,10 SAY &Y+ "*****" MBA CODE : "
16: @ 18,11 SAY &Y+ "*****" EXIT WHEN BLANK"
17: Q=" "
18: DO WHILE .T.
19: @ 7,40 GET Q
20: READ
21: IF Q=" "
22: | RETURN
23: | ENDIF
24:
25: * SET FACILITY CODE, NAME, MBA CODE AND NAME
26:
27:
28: IF .NOT. FILE("A_FAC.DBF")
29: | @ 20,20 SAY &R+"FACILITY DEFINITION FILE DOES NOT EXIST"
30: | AA=" "
31: | @ 20,65 GET AA
32: | READ
33: | @ 20,20 SAY SPACE(55)
34: | CLOSE DATABASES
35: | CLOSE PROCEDURE
36: | RETURN
37: | ENDIF
38:
39: USE A_FAC
40: GO TOP
41: QC=CODE
42: QN=NAME
43: SKIP
44: Q1=CODE
45: Q2=NAME
46: LOCATE FOR CODE=Q
47: IF EOF()
48: | @ 20,20 SAY &R+"MBA CODE (" +Q+ ")" DOES NOT EXIST IN FACILITY FILE"
49: | AA=" "
50: | @ 20,69 GET AA
51: | READ
52: | @ 20,20 SAY SPACE(55)
53: | LOOP
54: | ENDIF
55: Q3=CODE
56: Q4=NAME
57:
58: * SET FILE NAME
59: IF .NOT. FILE("A_MBAO.DBF")
60: | @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"

```

```

61: AA=" "
62: @ 20,65 GET AA
63: READ
64: @ 20,20 SAY SPACE(55)
65: CLOSE DATABASES
66: CLOSE PROCEDURE
67: RETURN
68: ENDIF
69:
70: USE A_MBANO
71: LOCATE FOR MBA=Q
72: IF EOF()
73: @ 20,20 SAY &R+"MBA CODE("+q+)" DOES NOT EXIST IN MBA FILE "
74: AA=" "
75: @ 20,69 GET AA
76: READ
77: @ 20,20 SAY SPACE(55)
78: LOOP
79: ENDIF
80: NN = LTRIM(STR(RECNO()))
81: FNAM1="A_IOT"-NN
82: FNAM2="A_IC"-NN
83: FNAM3="A_PIL"-NN
84: FNAM4="A_HEAD"-NN
85: FNAM5="A_BI"-NN
86: FNAM6="A_MBA"
87: IF .NOT. FILE("&FNAM4..DBF")
88: @ 20,20 SAY &R+"THERE IS NO REPORT FOR THIS MBA "
89: AA=" "
90: @ 20,65 GET AA
91: READ
92: @ 20,20 SAY SPACE(55)
93: LOOP
94: ENDIF
95: EXIT
96: ENDDO
97:
98: *CREATE DUMMY FROM STR_HEAD
99:
100: SELECT 1
101: IF .NOT. FILE("&FNAM1..DBF")
102: *CREATE &FNAM1 FROM STR_IOT
103: COPY FILE STR_IOT.DBF TO &FNAM1..DBF
104: ENDIF
105: USE &FNAM1 ALIAS IO
106: ZAP
107: SELECT 2
108: USE &FNAM2 ALIAS II
109: IF FNAM3<>"
110: SELECT 3
111: USE &FNAM3 ALIAS PP
112: ENDIF
113: SELECT 4
114: USE &FNAM4 ALIAS HH
115: SELECT 6
116: USE &FNAM6 ALIAS MM
117:
118: SELECT 1
119:
120: @ 15,10 SAY &Y+" PERIOD FROM (YYMMDD)"

```

```

121: @ 16,10 SAY &Y+"          TO (YTMDD)"
122: @ 18,10 SAY &Y+"          ( EXIT WHEN '0' INDICATED )"
123:
124: STORE 0 TO SYMD,EYMD
125:
126: DO WHILE .T.
127:   @ 15,45 GET SYMD PICTURE '999999'
128:   @ 16,45 GET EYMD PICTURE '999999'
129:   READ
130:   @ 20,30 SAY SPACE(40)
131:   IF SYMD=0
132:     CLOSE DATABASES
133:     CLOSE PROCEDURE
134:     RETURN
135:   ENDIF
136:   IF SYMD>EYMD
137:     @ 20,30 SAY &R+"PERIOD INVALID , RE-INPUT"
138:     LOOP
139:   ELSE
140:     EXIT
141:   ENDIF
142: ENDDO
143: QQ=" "
144: ?? &W
145: @ 20,10 SAY "          SCREEN OR PRINTER ? (S/P)"
146: DO WHILE .T.
147:   @ 20,54 GET QQ
148:   READ
149:   IF QQ<>"S" .AND. QQ<>"P"
150:     QQ=" "
151:     LOOP
152:   ENDIF
153:   EXIT
154: ENDDO
155:
156: SELECT 4
157: GOTO TOP
158: WMBA=MBACOD
159: WORG=USRCOD
160: WFCL=FCLCOD
161: WMBANK=MBANAM
162: WFCLNM=FCLNAM
163:
164: SELECT 5
165: COPY FILE STR.BI.DBF TO &FNAM5..DBF
166: USE &FNAM5 ALIAS BB
167: DO BOOK1 WITH SYMD
168: DO BOOK2 WITH SYMD
169: IF QQ="P"
170:   DO BIPRT WITH SYMD
171: ELSE
172:   DO BIPRT2 WITH SYMD
173: ENDIF
174:
175: STORE 0 TO F
176: SELECT 1
177: ZAP
178:
179: APPEND BLANK
180: REPLACE PRDF WITH SYMD,PRDT WITH EYMD

```

```

181: SELECT 2
182: LOCATE FOR CHGDAT>=SYMD .AND. CHGDAT<=EYMD
183:
184: DO WHILE .NOT. EOF()
185:
186: IF CHGDAT>EYMD .OR. CHGDAT<SYMD
187:   SKIP
188:   LOOP
189: ENDIF
190:
191: IF CORRNO <> 0 .AND. CORRNO <> 0
192:   SHAP=RECNO()
193:   CRNO=CORRNO
194:   CENO=CORRNO
195:
196: LOCATE FOR RNO=CRNO .AND. ENO=CENO
197: IF .NOT. EOF()
198:   IF CHGDAT>=SYMD .AND. CHGDAT<=EYMD
199:     SELECT 1
200:     LOCATE FOR KMP=II->KMP .AND. ECD=II->ACCECD .AND. ICD=II->ACCICD
201:     IF .NOT.EOF()
202:
203: DO CASE
204: !CASE II->CHGTYP="TR "
205:   STORE ETR-II->ACCEWT TO EWT
206:   STORE ITR-II->ACCFIWT TO IWT
207:   REPLACE ETR WITH EWT, ITR WITH IWT
208: !CASE II->CHGTYP="RF "
209:   STORE ERF-II->ACCEWT TO EWT
210:   STORE IRF-II->ACCFIWT TO IWT
211:   REPLACE ERF WITH EWT, IRF WITH IWT
212: !CASE II->CHGTYP="NP "
213:   STORE ENP-II->ACCEWT TO EWT
214:   STORE INP-II->ACCFIWT TO IWT
215:   REPLACE ENP WITH EWT, INP WITH IWT
216: !CASE II->CHGTYP="SF "
217:   STORE ESP-II->ACCEWT TO EWT
218:   STORE ISF-II->ACCFIWT TO IWT
219:   REPLACE ESP WITH EWT, ISF WITH IWT
220: !CASE II->CHGTYP="LN "
221:   STORE ELN-II->ACCEWT TO EWT
222:   STORE ILN-II->ACCFIWT TO IWT
223:   REPLACE ELN WITH EWT, ILN WITH IWT
224: !CASE II->CHGTYP="PB "
225:   STORE EPB-II->ACCEWT TO EWT
226:   STORE IPB-II->ACCFIWT TO IWT
227:   REPLACE EPB WITH EWT, IPB WITH IWT
228: !CASE II->CHGTYP="BE "
229:   STORE EBE-II->ACCEWT TO EWT
230:   STORE IBE-II->ACCFIWT TO IWT
231:   REPLACE EBE WITH EWT, IBE WITH IWT
232: !CASE II->CHGTYP="PE "
233:   STORE EPE-II->ACCEWT TO EWT
234:   STORE IPE-II->ACCFIWT TO IWT
235:   REPLACE EPE WITH EWT, IPE WITH IWT
236:
237: ENDCASE
238:
239: ENDIF
240: ENDIF

```

```

241: | SELECT 2
242: | GOTO SHAP
243: | ENDIF
244:
245: SELECT 1
246: LOCATE FOR KMP=II->KMP .AND. ECD=II->ACCECD .AND. ICD=II->ACCICD
247: IF EOF ( )
248: | APPEND BLANK
249: | REPLACE KMP WITH II->KMP,ECD WITH II->ACCECD,ICD WITH II->ACCICD
250: | ENDIF
251:
252: DO CASE
253: | CASE II->CHGTYP="TR "
254: | STORE ETR+II->ACCEWT TO EWT
255: | STORE ITR+II->ACCFIWT TO IWT
256: | REPLACE ETR WITH EWT,IIR WITH IWT
257: | CASE II->CHGTYP="RF "
258: | STORE ERF+II->ACCEWT TO EWT
259: | STORE IRF+II->ACCFIWT TO IWT
260: | REPLACE ERF WITH EWT,IRF WITH IWT
261: | CASE II->CHGTYP="NP "
262: | STORE ENP+II->ACCEWT TO EWT
263: | STORE INP+II->ACCFIWT TO IWT
264: | REPLACE ENP WITH EWT,INP WITH IWT
265: | CASE II->CHGTYP="SF "
266: | STORE ESF+II->ACCEWT TO EWT
267: | STORE ISF+II->ACCFIWT TO IWT
268: | REPLACE ESF WITH EWT,ISF WITH IWT
269: | CASE II->CHGTYP="LN "
270: | STORE ELN+II->ACCEWT TO EWT
271: | STORE ILN+II->ACCFIWT TO IWT
272: | REPLACE ELN WITH EWT,ILN WITH IWT
273: | CASE II->CHGTYP="PB "
274: | STORE EPB+II->ACCEWT TO EWT
275: | STORE IPB+II->ACCFIWT TO IWT
276: | REPLACE EPB WITH EWT,IPB WITH IWT
277: | CASE II->CHGTYP="BE "
278: | STORE EBE+II->ACCEWT TO EWT
279: | STORE IBE+II->ACCFIWT TO IWT
280: | REPLACE EBE WITH EWT,IBE WITH IWT
281: | CASE II->CHGTYP="PE "
282: | STORE EPE+II->ACCEWT TO EWT
283: | STORE IPE+II->ACCFIWT TO IWT
284: | REPLACE EPE WITH EWT,IPE WITH IWT
285: | ENDCASE
286:
287: IF II->CHGTYP="LN "
288: | SELECT 6
289: | LOCATE FOR MBACODE=II->MBA .AND. FRKMP=II->CNTRYF .AND. ;
290: | KMP<>II->KMP
291: | KTMP=KMP
292: | KTKTMP=TKTMP
293: | LOCATE FOR KMP=SUBSTR(KTKTMP,1,1)
294: | IF EOF ( )
295: | | SFLG=1
296: | | ELSE
297: | | SFLG=0
298: | ENDIF
299: | SELECT 2
300: | STORE ACCEWT TO EWT

```

```

301: STORE ACCFIWT TO IWT
302: STORE RECNO() TO SHAP
303: STORE BATNO TO BATNOD
304: LOCATE FOR BATNO=BATNOD .AND. ACCECD=IO->ECD .AND. ACCICD=IO->ICD ;
305: .AND. SUBSTR(CHGTYP,1,1)="R" .OR. CHGTYP="NP "
306:
307: IF .NOT. EOF()
308: STORE ACCICD TO IC
309: STORE ACCECD TO EC
310: STORE ACCEWT-EWT TO EWT
311: STORE ACCFIWT-IWT TO IWT
312: SELECT 1
313: LOCATE FOR KMP=KKMP .AND. ECD=EC .AND. ICD=IC
314: IF EOF()
315: | APPEND BLANK
316: | ENDIF
317: STORE ETR+EWT TO EWT
318: STORE ITR+IWT TO IWT
319: REPLACE KMP WITH KKMP,ECD WITH EC
320: REPLACE ICD WITH IC
321: IF SELG=0
322: | REPLACE ETR WITH EWT, ITR WITH IWT
323: | ENDIF
324: ENDIF
325: SELECT 2
326: GOTO SHAP
327: ENDIF
328:
329: SELECT 2
330: SKIP
331:
332: ENDDO
333:
334: SELECT 1
335:
336: SORT ON KMP,ECD,ICD TO WWK
337: USE WWK
338: IF QQ="P"
339: | DO IOPRT
340: | ELSE
341: | DO IOPRT2
342: ENDIF
343:
344: SELECT 5
345: COPY FILE STR_BI.DBF TO &FNAMS..DBF
346: USE &FNAMS ALIAS BB
347: DO BOOK1 WITH EYMD
348: DO BOOK2 WITH EYMD
349: IF QQ="P"
350: | DO BIPRT WITH EYMD
351: | ELSE
352: | DO BIPRT2 WITH EYMD
353: ENDIF
354:
355: CLOSE DATABASES
356: CLOSE PROCEDURE
357: RETURN

```



```

1: *****
2: * CONVERT DBF TO ASCII FILE *****
3: *****
4:
5: CLEAR
6:
7: ?? &Y
8: @ 1,10 SAY "*****
9: @ 2,10 SAY " * CONVERT dBASE-III FILE TO ASCII FILES *****
10: @ 3,10 SAY "*****
11: @ 7,10 SAY " *****
12: @ 17,11 SAY " *****
13:
14: Q=" " EXIT WHEN BLANK"
15: DO WHILE .T.
16: @ 7,40 GET Q
17: READ
18: IF Q=" "
19: RETURN
20: ENDIF
21:
22: IF .NOT. FILE("A_MBANO.DBF")
23: @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"
24: AA=" "
25: @ 20,65 GET AA
26: READ
27: @ 20,20 SAY SPACE(55)
28: CLOSE DATABASES
29: CLOSE PROCEDURE
30: RETURN
31: ENDIF
32: USE A_MBANO
33: LOCATE FOR MBA=Q
34: IF EOF()
35: @ 20,20 SAY &R+"MBA CODE("+Q+") DOES NOT EXIST IN MBA FILE"
36: AA=" "
37: @ 20,65 GET AA
38: READ
39: @ 20,20 SAY SPACE(55)
40: LOOP
41: ENDIF
42: NN = LTRIM(STR(RECNO()))
43: FNAM1="A_HEAD"-NN
44: FNAM2="A_IC"-NN
45: FNAM3="A_ICR"-NN
46: FNAM4="A_PIL"-NN
47: FNAM5="A_MBR"-NN
48: FNAM6="A_BOOK"-NN
49: IF .NOT. FILE("&FNAM1.DBF")
50: @ 20,20 SAY &R+"THERE IS NO REPORT FOR THIS MBA.
51: AA=" "
52: @ 20,65 GET AA
53: READ
54: @ 20,20 SAY SPACE(55)
55: LOOP
56: ENDIF
57: EXIT
58: ENDDO
59: CLEAR
60:

```

```

61: AFNAM1="HEAD"-NN
62: AFNAM2="IC"-NN
63: AFNAM3="ICR"-NN
64: AFNAM4="PIL"-NN
65: AFNAM5="MR"-NN
66: AFNAM6="BOOK"-NN
67: AFNAM6="BOOK"-NN
68:
69: CLEAR
70:
71: @ 1,10 SAY &Y+*****
72: @ 2,10 SAY &Y+*****
73: @ 3,10 SAY &Y+*****
74: @ 5,10 SAY &B+*****
75: @ 7,10 SAY &Y+*****
76: @ 8,10 SAY &Y+*****
77: @ 9,10 SAY &Y+*****
78: @ 10,10 SAY &Y+*****
79: @ 11,10 SAY &Y+*****
80: @ 12,10 SAY &Y+*****
81: @ 14,10 SAY &Y+*****
82:
83: Q=" "
84:
85: DO WHILE .T.
86: | @ 14,40 GET Q
87: | READ
88: | IF Q="Y"
89: | | EXIT
90: | ENDIF
91: | @ 7,42 GET AFNAM1
92: | @ 8,42 GET AFNAM2
93: | @ 9,42 GET AFNAM3
94: | @ 10,42 GET AFNAM4
95: | @ 11,42 GET AFNAM5
96: | @ 12,42 GET AFNAM6
97: | READ
98: ENDDO
99:
100: USE &FNAM1
101: COPY TO &AFNAM1 SDF
102: IF FNAM2<>"
103: | USE &FNAM2
104: | COPY TO &AFNAM2 SDF
105: ENDIF
106: IF FNAM3<>"
107: | USE &FNAM3
108: | COPY TO &AFNAM3 SDF
109: ENDIF
110: IF FNAM4<>"
111: | USE &FNAM4
112: | COPY TO &AFNAM4 SDF
113: ENDIF
114: IF FNAM5<>"
115: | USE &FNAM5
116: | COPY TO &AFNAM5 SDF
117: ENDIF
118: IF FNAM6<>"
119: | USE &FNAM6
120: | COPY TO &AFNAM6 SDF

```

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121: ENDIF  
122:  
123: CLOSE DATABASES  
124: RETURN

```

1: *****
2: * DISPLAY A TABLE OF REPORT NO. - PERIOD *
3: * (FLTABLE.PRG) *
4: *****
5:
6: CLEAR
7:
8: @ 1,10 SAY &Y+*****
9: @ 2,10 SAY &Y+***** DISPLAY REPORT NO. - PERIOD *****
10: @ 3,10 SAY &Y+*****
11: @ 7,10 SAY &Y+***** MBA CODE : " *****
12: @ 17,11 SAY &Y+***** EXIT WHEN BLANK"
13:
14: Q=" "
15: DO WHILE .T.
16: @ 7,40 GET Q
17: READ
18: IF Q=" "
19: | RETURN
20: | ENDIF
21:
22: IF .NOT. FILE("A_MBAANO.DBF")
23: | @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"
24: | AA=" "
25: | @ 20,65 GET AA
26: | READ
27: | @ 20,20 SAY SPACE(55)
28: | CLOSE DATABASES
29: | CLOSE PROCEDURE
30: | RETURN
31: | ENDIF
32: USE A_MBAANO
33: LOCATE FOR MBA=Q
34: IF EOF()
35: | @ 20,20 SAY &R+"MBA CODE("+Q+") DOES NOT EXIST IN MBA FILE"
36: | AA=" "
37: | @ 20,65 GET AA
38: | READ
39: | @ 20,20 SAY SPACE(55)
40: | LOOP
41: | ENDIF
42: NN = LTRIM(STR(RECNO()))
43: FNAM1="A_HEAD"-NN
44: IF .NOT. FILE("&FNAM1.DBF")
45: | @ 20,20 SAY &R+"THERE IS NO REPORT FOR THIS MBA "
46: | AA=" "
47: | @ 20,65 GET AA
48: | READ
49: | @ 20,20 SAY SPACE(55)
50: | LOOP
51: | ENDIF
52: | EXIT
53: | ENDDO
54:
55: SELECT 1
56: USE &FNAM1 ALIAS HH
57: ANS=" "
58:
59: * IC FILE
60: NCC=0

```

```

61: L=24
62: LOCATE FOR ICRHEDK=0
63: DO WHILE .T.
64: IF EOF()
65: | EXIT
66: ENDIF
67: NCC=1
68: IF L>23
69: | CLEAR
70: | ?? &Y
71: | @ 2,20 SAY "
72: | @ 4,20 SAY "
73: | L=6
74: ENDIF
75: ?? &Y
76: @ L,25 SAY REPNO PICTURE "9999"
77: @ L,42 SAY REPRM PICTURE "@D"
78: @ L,51 SAY "-"
79: @ L,53 SAY REPTO PICTURE "@D"
80: L=L+1
81: CONTINUE
82: ENDDO
83:
84: IF NCC=1
85: | @ 23,71 GET ANS
86: | READ
87: ENDIF
88:
89: * ICR FILE
90:
91: NCR=0
92: L=24
93: LOCATE FOR ICRHEDK=1
94: DO WHILE .T.
95: | IF EOF()
96: | | EXIT
97: ENDIF
98: NCR=1
99: IF L>23
100: | CLEAR
101: | ?? &Y
102: | @ 2,20 SAY "
103: | @ 4,20 SAY "
104: | L=6
105: ENDIF
106: ?? &Y
107: @ L,25 SAY REPNO PICTURE "9999"
108: @ L,42 SAY REPRM PICTURE "@D"
109: @ L,51 SAY "-"
110: @ L,53 SAY REPTO PICTURE "@D"
111: L=L+1
112: CONTINUE
113: ENDDO
114:
115: IF NCR=1
116: | @ 23,71 GET ANS
117: | READ
118: ENDIF
119:
120: * FIL FILE

```

```

121: L=24
122: NPIL=0
123: LOCATE FOR ICRHEDK=4
124: DO WHILE .T.
125: IF EOF( )
126: | EXIT
127: | ENDIF
128: NPIL=1
129: IF L>23
130: | CLEAR
131: | ?? &Y
132: | @ 2,20 SAY " ***** PIL FILE *****"
133: | @ 4,20 SAY " REPORT No. PERIOD"
134: | L=6
135: | ENDIF
136: ?? &Y
137: @ L,25 SAY REPNO PICTURE "9999"
138: @ L,47 SAY REPRM PICTURE "@D"
139: L=L+1
140: CONTINUE
141: ENDDO
142: IF NPIL=1
143: | @ 23,71 GET ANS
144: | READ
145: | ENDIF
146: * MBR FILE
147: NMBR=0
148: L=24
149: LOCATE FOR ICRHEDK=6
150: DO WHILE .T.
151: IF EOF( )
152: | EXIT
153: | ENDIF
154: NMBR=1
155: IF L>23
156: | CLEAR
157: | ?? &Y
158: | @ 2,20 SAY " ***** MBR FILE *****"
159: | @ 4,20 SAY " REPORT No. PERIOD"
160: | L=6
161: | ENDIF
162: ?? &Y
163: @ L,25 SAY REPNO PICTURE "9999"
164: @ L,42 SAY REPRM PICTURE "@D"
165: @ L,51 SAY "-"
166: @ L,53 SAY REPTO PICTURE "@D"
167: L=L+1
168: CONTINUE
169: ENDDO
170: IF NMBR=1
171: | @ 23,71 GET ANS
172: | READ
173: | ENDIF
174: * PROCEDURE OF END

```

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181: CLOSE DATABASES  
182: CLOSE DATABASES  
183: CLOSE PROCEDURE

```

1: *****
2: * BOOK INVENTORY PRINT OUT ROUTINE ( BIPRT.PRG ) *
3: *****
4:
5: CNT=0
6: GOTO 1
7: *DO WHILE .NOT. EOF()
8: * IF BDATE<>0 .AND. BEWEIT>0.
9: *   CNT=CNT+1
10: * ENDIF
11: * SKIP
12: *ENDDO
13:
14: *GOTO TOP
15: *DO WHILE BDATE=0 .OR. BEWEIT<=0.
16: * SKIP
17: *ENDDO
18:
19: CLEAR
20:
21: ?? &Y
22: @ 2,5 SAY "*****"
23: @ 3,5 SAY " "
24: @ 4,5 SAY "*****"
25: @ 6,5 SAY "ORGANIZATION CODE : "
26: @ 7,5 SAY "FACILITY CODE : "
27: @ 8,5 SAY "MBA CODE : "
28: @ 10,5 SAY "DATE OF BIL : "
29: ?? &W
30: @ 6,24 SAY BORG
31: @ 6,36 SAY ONAME
32: @ 7,24 SAY BFCL
33: @ 7,36 SAY FNAME
34: @ 8,24 SAY BMBA
35: @ 8,36 SAY MNAME
36: @ 10,24 SAY WDATE PICTURE '99/99/99'
37:
38: DO WHILE .NOT. EOF()
39: @ 23,20 SAY &G+"PRESS ANY KEY"
40: Q=" "
41: @ 23,34 GET Q
42: READ
43: CLEAR
44: ?? &Y
45: @ 1,16 SAY &Y+" "
46: @ 1,60 SAY WDATE PICTURE '99/99/99'
47: @ 3,1 SAY &Y+" KMP NAME/ NO.OF MATE- ORIGIN ELE- WT. UNIT WT. ISO. MEASU- CORR-TO"
48: @ 4,1 SAY &Y+" NO.OF ITEMS RIAL OF MENT OF REMENT REP ENT"
49: @ 5,1 SAY "CODE IN DESC- MATE- ELE- WT. F.I. CODE BASIS NO. NO."
50: @ 6,1 SAY " BATCH BATCH RIPT. RIAL CODE MENT"
51: @ 7,1 SAY " "
52:
53: L=8
54: ?? &W
55:
56: DO WHILE L<23 .AND. .NOT.EOF()
57: * IF BDATE=0 .OR. BEWEIT<=0.
58: * SKIP
59: * LOOP
60: * ENDIF

```



```

61: -----
62: @ L, 2 SAY BKMP PICTURE 'X'
63: @ L, 5 SAY BBATCH PICTURE 'XXXXXXXXX'
64: @ L, 14 SAY BITM PICTURE '9999'
65: @ L, 20 SAY BMDESC PICTURE 'XXXX'
66: @ L, 27 SAY BORGX PICTURE 'XXXX'
67: @ L, 34 SAY BELM PICTURE 'X'
68: @ L, 37 SAY BEWEIT PICTURE '99999999'
69: @ L, 47 SAY BUNIT PICTURE 'X'
70: @ L, 50 SAY BIWEIT PICTURE '99999999'
71: @ L, 60 SAY BISO PICTURE 'X'
72: @ L, 65 SAY BBAS PICTURE 'X'
73: -----
74: L=L+1
75: -----
76: SKIP
77: ENDDO
78: -----
79: -----
80: ENDDO
81: @ 23,20 SAY &G+ "PRESS ANY KEY"
82: Q=" "
83: @ 23,34 GET Q
84: READ
85: -----
86: RETURN

```

```

1: ****
2: **** MBA
3: ****
4: DO WHILE .T.
5: CLEAR
6: ?? &Y
7: @ 3,10 SAY "***** MBA DEFINITION MENU *****"
8: @ 6,10 SAY " 0. RETURN TO DESIGN INFORMATION MENU"
9: @ 8,10 SAY " 1. CREATE"
10: @ 10,10 SAY " 2. UPDATE"
11: @ 12,10 SAY " 3. DELETE"
12: @ 14,10 SAY " 4. APPEND"
13: @ 16,10 SAY " 5. DISPLAY/PRINT"
14: @ 20,10 SAY " SELECT NO."
15: NO = " "
16: DO WHILE .T.
17: @ 20,30 GET NO
18: READ
19: IF VAL(NO)>5 .OR. VAL(NO)<0
20: LOOP
21: ENDIF
22: IF .NOT. FILE("A_MBA.DBF").AND. VAL(NO)>1
23: @ 22,10 SAY &R+" THERE IS NO DEFINITION FOR MBA"
24: @ 23,10 SAY &R+" --> AT FIRST SELECT 1."
25: LOOP
26: ENDIF
27: EXIT
28: ENDDO
29: @ 22,10 SAY SPACE(69)
30: @ 23,10 SAY SPACE(69)
31: DO CASE
32: CASE NO = "0"
33: RETURN
34: CASE NO = "1"
35: IF FILE("A_MBA.DBF")
36: DELE FILE A_MBA.DBF
37: ENDIF
38: IF FILE("A_MBAIDX.NDX")
39: DELE FILE A_MBAIDX.NDX
40: ENDIF
41: IF FILE("A_MBANO.DBF")
42: DELE FILE A_MBANO.DBF
43: ENDIF
44: COPY FILE STR_MBA.DBF TO A_MBA.DBF
45: SELECT 1
46: USE A_MBA
47: INDEX ON MBACODE + KMP + FRKMP + TOKMP TO A_MBAIDX
48: COPY FILE STR_MBANO.DBF TO A_MBANO.DBF
49: SELECT 2
50: USE A_MBANO
51: SELECT 1
52: DO MBADDF
53: CLOSE DATABASE
54: LOOP
55: CASE NO = "5"
56: SELECT 1
57: USE A_MBA INDEX A_MBAIDX
58: SELECT 2
59: USE A_MBANO
60: SELECT 1

```

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```
61: |-----| DO MBADSP
62: |-----| CLOSE DATABASE
63: |-----| LOOP
64: |-----| CASE NO = "2" .OR. NO = "3" .OR. NO = "4"
65: |-----| SELECT 1
66: |-----| USE A_MBA INDEX A_MBAIDX
67: |-----| SELECT 2
68: |-----| USE A_MBANO
69: |-----| SELECT 1
70: |-----| DO MBADRF
71: |-----| CLOSE DATABASE
72: |-----| LOOP
73: |-----| ENDCASE
74: ENDDO
75: *****
```

```

1: ****
2: **** MBADSP.PRG
3: ****
4: SP = " "
5: DO WHILE .T.
6: @ 22,10 SAY "OUTPUT TO SCREEN OR PRINTER ? (S/P)" GET SP
7: READ
8: DO CASE
9: |CASE SP="S"
10: |EXIT
11: |CASE SP="P"
12: |SET DEVICE TO PRINT
13: |@ 1,10 SAY "***** MBA DEFINITION *****"
14: |@ 3,10 SAY " MBACODE KMPCODE FROM ***** TO "
15: |EXIT
16: |LOOP
17: |OTHERWISE
18: |ENDCASE
19: ENDDO
20: GO TOP
21: IF SP="S"
22: L=23
23: |ELSE
24: |L=5
25: |ENDIF
26: P=0
27: DO WHILE .T.
28: |IF L>22 .AND. SP="S"
29: |CLEAR
30: |P=P+1
31: |?? &Y
32: |@ 1,10 SAY "***** MBA DEFINITION *****"
33: |@ 3,10 SAY " MBACODE KMPCODE FROM ***** TO "
34: |@ 2,60 SAY "page."+STR(P,2)
35: |L=5
36: |ENDIF
37: |IF EOF()
38: |IF P<2 .AND. L=5
39: |@ L,10 SAY ".... NO MBA DEFINITION RECORD ...."
40: |ENDIF
41: |L=L+1
42: |IF SP="S"
43: |Q=" "
44: |@ 20,30 SAY &G+"PRESS ANY KEY " GET Q
45: |READ
46: |ENDIF
47: |SET DEVICE TO SCREEN
48: |RETURN
49: |ENDIF
50: |@ L,15 SAY MBACODE
51: |@ L,25 SAY KMP
52: |@ L,35 SAY FRKMP
53: |@ L,45 SAY TOKMP
54: |L=L+1
55: |SKIP
56: ENDDO

```

```

1: *****
2: * DEFINE FACILITY *
3: *****
4: SET PROCEDURE TO FACSUB
5:
6: DO WHILE .T.
7: CLEAR
8: @ 3,10 SAY &Y+ "***** DEFINE FACILITY MENU *****"
9: @ 6,10 SAY &Y+ "0. RETURN TO DESIGN INFORMATION MENU"
10: @ 8,10 SAY &Y+ "1. CREATE"
11: @ 10,10 SAY &Y+ "2. UPDATE"
12: @ 12,10 SAY &Y+ "3. MBA DELETE"
13: @ 14,10 SAY &Y+ "4. MBA APPEND"
14: @ 16,10 SAY &Y+ "5. DISPLAY/PRINT"
15: @ 20,10 SAY &Y+ "SELECT NO."
16:
17: NO= " "
18: DO WHILE .T.
19: @ 20,30 GET NO
20: READ
21: @ 22,10 SAY SPACE(60)
22: @ 23,10 SAY SPACE(60)
23: IF VAL(NO)>5 .OR. VAL(NO)<0
24: | @ 22,10 SAY &R+ " SELECT 1,2,3,4, OR 5"
25: | LOOP
26: ENDIF
27: IF .NOT. FILE("A_FAC.DBF") .AND. VAL(NO)>1
28: | @ 22,10 SAY &R+ " THERE IS NO DEFINITION FOR FACILITY"
29: | @ 23,10 SAY &R+ " --> AT FIRST SELECT 1."
30: | LOOP
31: ENDIF
32: EXIT
33: ENDDO
34: DO CASE
35: | CASE NO="0"
36: | CLOSE DATABASES
37: | CLOSE PROCEDURE
38: | RETURN
39: | CASE NO="1"
40: | IF FILE("A_FAC.DBF")
41: | | DELE FILE A_FAC.DBF
42: | ENDIF
43: | COPY FILE STR_FAC.DBF TO A_FAC.DBF
44: | USE A_FAC
45: | DO FACCRE
46: | CLOSE DATABASES
47: | LOOP
48: | CASE NO="2" .OR. NO="3" .OR. NO="4"
49: | USE A_FAC
50: | DO FACCRE
51: | CLOSE DATABASES
52: | LOOP
53: | CASE NO="5"
54: | USE A_FAC
55: | DO FACDSP
56: | CLOSE DATABASES
57: | LOOP
58: | OTHERWISE
59: | LOOP
60: ENDCASE

```

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61: ENDDO

```

1: PUBLIC NMCODE,NKCODE
2: *****
3: ***** MBEADEF
4: *****
5: SELECT 1
6: CLEAR
7: DO CASE
8: | CASE NO="1"
9: | @ 1,1 SAY &B+"[ CREATE ]"
10: | CASE NO="4"
11: | @ 1,1 SAY &B+"[ APPEND ]"
12: | CASE NO="2"
13: | @ 1,1 SAY &B+"[ UPDATE ]"
14: | @ 4,30 SAY &W+"OLD"
15: | @ 4,40 SAY &W+"NEW"
16: | CASE NO="3"
17: | @ 1,1 SAY &B+"[ DELETE ]"
18: ENDCASE
19: @ 3,10 SAY &Y+"***** INPUT MBA DEFINITION *****"
20: @ 6,10 SAY &Y+" 1. MBACODE"
21: @ 8,10 SAY &Y+" 2. KMP"
22: @ 10,10 SAY &Y+" 3. FROM KMP"
23: @ 12,10 SAY &Y+" 4. TO KMP"
24: @ 15,10 SAY &Y+" ( WHEN KMP IS IKMP, "
25: @ 16,10 SAY &Y+" 'FROM KMP' AND 'TO KMP' SHOULD BE BLANK )"
26: @ 18,10 SAY &Y+" ( EXIT WHEN MBACODE IS BLANK )"
27:
28: MCODE=" "
29: KCODE=" "
30: FKMP=" "
31: TKMP=" "
32: SET COLOR TO W
33: DO WHILE .T.
34: | @ 6,31 GET MCODE
35: | @ 8,31 GET KCODE
36: | @ 10,31 GET FKMP
37: | @ 12,31 GET TKMP
38: READ
39: IF MCODE=" "
40: | RETURN
41: ENDF
42: @ 20,0 SAY SPACE(75)
43:
44: IF NO="4" .OR. NO="1"
45: | LOCATE FOR MBACODE = MCODE .AND. KMP = KCODE
46: | IF EOF()
47: | | IF ( ( VAL(KCODE) >0 .AND. VAL(KCODE) <10 ) .OR. KCODE="*" ) ;
48: | | .AND. ( FKMP=" " .OR. TKMP=" " )
49: | | @ 20,20 SAY &R+" INPUT FROM/TO KMP WHEN KMP IS"
50: | | @ 20,50 SAY &R+"FLOW KMP"
51: | | LOOP
52: | ENDF
53: IF MCODE=" "
54: | @ 20,20 SAY &R+" INPUT MBACODE"
55: | LOOP
56: ENDF
57: IF KCODE=" "
58: | @ 20,20 SAY &R+" INPUT KMP "
59: | LOOP
60: ENDF

```

```

61: IF ( VAL(KCODE) =0 .AND. KCODE<>"*" ) .AND. ;
62: ( FRKMP <> " .OR. TKMP <> " ) ;
63: @ 20,15 SAY &R+"FROM/TO KMP MUST BE SPACE" ;
64: @ 20,42 SAY &R+"WHEN KMP IS INVENTORY KMP " ;
65: LOOP ;
66: ENDIF ;
67: IF ( VAL(KCODE) >0 .OR. KCODE="*" ) .AND. ;
68: ( VAL(SUBSTR(FKMP,1,1))>0 .OR. FKMP="*" ) .OR. ;
69: ( VAL(SUBSTR(TKMP,1,1))>0 .OR. TKMP="*" ) ;
70: @ 20,15 SAY &R+"FROM/TO KMP MUST NOT BE FKMP CODE" ;
71: LOOP ;
72: ENDIF ;
73: APPEND BLANK ;
74: REPLACE MBACODE WITH MCODE , KMP WITH KCODE , FRKMP WITH FRKMP , ;
75: TOKMP WITH TKMP ;
76: SELECT 2 ;
77: LOCATE FOR MBA=MCODE ;
78: IF EOF ( ) ;
79: APPEND BLANK ;
80: REPLACE MBA WITH MCODE ;
81: ENDIF ;
82: SELECT 1 ;
83: @ 20,20 SAY "ONE RECORD APPENDED" ;
84: ELSE ;
85: @ 20,20 SAY &R+"INDICATE RECORD ALREADY EXIST" ;
86: LOOP ;
87: ENDIF ;
88: LOOP ;
89: ENDIF ;
90: LOCATE FOR MBACODE = MCODE .AND. KMP = KCODE .AND. ;
91: FRKMP = FRKMP .AND. TOKMP = TKMP ;
92: IF EOF ( ) ;
93: @ 20,20 SAY &R+"INDICATED RECORD DOES NOT EXIST" ;
94: ELSE ;
95: DO CASE ;
96: !CASE NO="2" ;
97: NMCODE=" " ;
98: NKCODE=" " ;
99: NFKMP=" " ;
100: NTKMP=" " ;
101: DO WHILE .T. ;
102: @ 6,41 GET NMCODE ;
103: @ 8,41 GET NKCODE ;
104: @ 10,41 GET NFKMP ;
105: @ 12,41 GET NTKMP ;
106: READ ;
107: @ 20,0 SAY SPACE(75) ;
108: IF ( ( VAL(NKCODE) >0 .AND. VAL(NKCODE) <10 ) .OR. NKCODE="*" ) ;
109: .AND. ( NFKMP = " .OR. NTKMP = " ) ;
110: @ 20,20 SAY &R+" INPUT FROM/TO KMP WHEN KMP IS " ;
111: @ 20,50 SAY &R+"FLOW KMP"+SPACE(10) ;
112: LOOP ;
113: ENDIF ;
114: IF NMCODE = " " ;
115: @ 20,20 SAY &R+" INPUT MBACODE" ;
116: LOOP ;
117: ENDIF ;
118: IF NKCODE = " " ;
119: @ 20,20 SAY &R+" INPUT KMP " ;
120: LOOP ;

```



```

121:
122: ENDIF
123: IF ( VAL(NKCODE) =0 .AND. NKCODE<>"*" ) .AND. ;
124: ( NFKMP <> " " .OR. NTKMP <> " " )
125: @ 20,20 SAY &R+"FROM/TO KMP MUST BE SPACE"
126: @ 20,47 SAY &R+"WHEN KMP IS INVENTORY KMP "
127: LOOP
128: ENDIF
129: IF MBACODE<>NMCODE .OR. KMP<>NKCODE
130: NOREC=REGNO( )
131: LOCATE FOR MBACODE=NMCODE .AND. KMP=NKCODE
132: IF .NOT. EOF( )
133: @ 20,20 SAY &R+"THIS KMP CODE IS ALREADY EXIST IN THIS MBA"
134: GOTO NOREC
135: LOOP
136: ENDIF
137: GOTO NOREC
138: ENDIF
139: IF ( VAL(NKCODE) >0 .OR. NKCODE="*" ) .AND. ( VAL(SUBSTR(NFKMP,1,1))>0 .OR. NFKMP="* " .OR. VAL(SUBSTR(NTKMP,1,1))>0
140: @ 20,15 SAY &R+"FROM/TO KMP MUST NOT BE FKMP CODE"
141: LOOP
142: ENDIF
143: EXIT
144: ENDDO
145: REPLACE MBACODE WITH NMCODE , KMP WITH NKCODE , FRKMP WITH NFKMP , TOKMP WITH NTKMP
146: @ 20,20 SAY "THE RECORD UPDATED"
147: CASE NO="3"
148: DELETE
149: @ 20,20 SAY "INDICATED RECORD DELETED"
150: ENDCASE
151: ENDIF
152: ENDDO

```

```

1: *****
2: * FILE REPORT PRINT OUT ROUTINE *
3: *****
4: SET PROCEDURE TO PPROC
5:
6: STORE " " TO MSG
7: STORE 0 TO NO
8:
9: CLEAR
10:
11: @ 1,10 SAY &Y+*****
12: @ 2,10 SAY &Y+***** LISTING REPORTS *****
13: @ 3,10 SAY &Y+***** MBA CODE : " *****
14: @ 7,10 SAY &Y+*****
15: @ 17,11 SAY &Y+***** EXIT WHEN BLANK"
16:
17: Q=" "
18: DO WHILE .T.
19: @ 7,40 GET Q
20: READ
21: IF Q=" "
22: | RETURN
23: |
24:
25: * SET FACILITY CODE, NAME, MBA CODE AND NAME
26:
27: IF .NOT. FILE("A_FAC.DBF")
28: @ 20,20 SAY &R+"FACILITY DEFINITION FILE DOES NOT EXIST"
29: AA=" "
30: @ 20,65 GET AA
31: READ
32: @ 20,20 SAY SPACE(55)
33: CLOSE DATABASES
34: CLOSE PROCEDURE
35: RETURN
36: ENDF
37:
38: USE A_FAC
39: GO TOP
40: QC=CODE
41: QN=NAME
42: SKIP
43: Q1=CODE
44: Q2=NAME
45: LOCATE FOR CODE=Q
46: IF EOF()
47: @ 20,20 SAY &R+"MBCODE("'+Q+'") DOES NOT EXIST IN FACILITY FILE"
48: AA=" "
49: @ 20,69 GET AA
50: READ
51: @ 20,20 SAY SPACE(55)
52: LOOP
53: ENDF
54: Q3=CODE
55: Q4=NAME
56:
57: * SET FILE NAME
58: IF .NOT. FILE("A_MBANO.DBF")
59: @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"
60: AA=" "

```

```

61: | @ 20,65 GET AA
62: | READ
63: | @ 20,20 SAY SPACE(55)
64: | CLOSE DATABASES
65: | CLOSE PROCEDURE
66: | RETURN
67: | ENDIF
68:
69: USE A MBANO
70: LOCATE FOR MBA=Q
71: IF EOF()
72: | @ 20,20 SAY &R+"MBA CODE("+Q+)" DOES NOT EXIST IN MBA FILE "
73: | AA=" "
74: | @ 20,69 GET AA
75: | READ
76: | @ 20,20 SAY SPACE(55)
77: | LOOP
78: | ENDIF
79: NN = LTRIM(STR(RECNO()))
80: FNAM1="A_HEAD"-NN
81: FNAM2="A_IC"-NN
82: FNAM3="A_PIL"-NN
83: FNAM4="A_MBR"-NN
84: FNAM5="A_ICR"-NN
85: IF .NOT. FILE("&FNAM1..DBF")
86: | @ 20,20 SAY &R+"THERE IS NO REPORT FOR THIS MBA "
87: | AA=" "
88: | @ 20,65 GET AA
89: | READ
90: | @ 20,20 SAY SPACE(55)
91: | LOOP
92: | ENDIF
93: | EXIT
94: ENDDO
95:
96: SELECT 1
97: USE &FNAM1 ALIAS HH
98: FL=0
99: DO WHILE .T.
100:
101: CLEAR
102:
103: ?? &Y
104: @ 3,10 SAY "LIST MENU"
105: @ 4,10 SAY "----"
106: @ 5,12 SAY "0 : END"
107: @ 6,12 SAY "1 : IC"
108: @ 7,12 SAY "2 : ICR"
109: @ 8,12 SAY "3 : PIL"
110: @ 9,12 SAY "4 : MBR"
111: @ 11,10 SAY "SELECT THE No."
112: IF FL=0
113: MO=0
114: @ 11,28 GET MO PICTURE '9'
115: READ
116: IF MO<0 .OR. MO>4
117: | LOOP
118: | ENDIF
119: IF MO=0
120: | CLOSE DATABASES

```

```

121: ..... CLOSE PROCEDURE
122: ..... RETURN
123: ..... ENDIF
124: .....
125: ..... NAMEFL=" "
126: ..... DO CASE
127: ..... |CASE MO=1
128: ..... |NAMEFL="IC "
129: ..... |NOHEDK=0
130: ..... |CASE MO=2
131: ..... |NAMEFL="ICR"
132: ..... |NOHEDK=1
133: ..... |CASE MO=3
134: ..... |NAMEFL="PIL"
135: ..... |NOHEDK=4
136: ..... |CASE MO=4
137: ..... |NAMEFL="MBR"
138: ..... |NOHEDK=6
139: ..... ENDCASE
140: ..... ELSE
141: ..... |@ 11,28 SAY MO PICTURE '9'
142: ..... ENDIF
143: .....
144: ..... DO WHILE .T.
145: ..... SELECT 1
146: ..... LL=LL
147: ..... LOCATE FOR ICRHEDK=NOHEDK
148: ..... IF EOF()
149: ..... |?? &R
150: ..... |AA=" "
151: ..... |@ 12,10 SAY "NO REPORT IN FILE " GET AA
152: ..... READ
153: ..... |@ 12,10 SAY SPACE(55)
154: ..... EXIT
155: ..... ENDIF
156: ..... ?? &Y
157: ..... @ 12,10 SAY "REPORT NO. IN FILE = "
158: ..... DO WHILE .T.
159: ..... |LL=LL+1
160: ..... |NN=1
161: ..... |COL=26
162: ..... |DO WHILE NN<=10
163: ..... |IF EOF()
164: ..... |EXIT
165: ..... |ENDIF
166: ..... |COL=COL+5
167: ..... |?? &Y
168: ..... |@ LL,COL SAY REPNO PICTURE "9999"
169: ..... |CONTINUE
170: ..... |NN=NN+1
171: ..... ENDDO
172: ..... IF EOF()
173: ..... |FL=0
174: ..... |EXIT
175: ..... |ENDIF
176: ..... ENDDO
177: .....
178: ..... L1=LL*2
179: ..... L2=LL+1
180: ..... L3=L2*2

```

```

181:
182: @ L1,10 SAY &Y+"          REPORT NO. "
183: @ L2,10 SAY &Y+"          ( EXIT WHEN 'O' INDICATED )"
184: NO=0
185: @ L1,39 GET NO PICTURE '9999'
186: READ
187: IF NO=0
188: | EXIT
189: | ENDIF
190:
191: SELECT 1
192:
193: LOCATE FOR REPNO=NO .AND. ICRHEDK=NOHEDK
194:
195: IF EOF()
196: | @ 23,25 SAY &R+"INDECATED REPORT NO.DOES NOT EXIST"
197: | Q=" "
198: | @ 23,64 GET Q
199: READ
200: CLEAR
201: FL=1
202: EXIT
203: ENDIF
204:
205: Q=" "
206: ?? &W
207: @ L3,10 SAY "          SCREEN OR PRINTER ? (S/P)"
208: DO WHILE .T.
209: | @ L3,54 GET Q
210: READ
211: IF Q<>"S" .AND. Q<>"P"
212: | Q=" "
213: | LOOP
214: | ENDIF
215: | EXIT
216: | ENDDO
217:
218: IF Q="P"
219: | @ 22,25 SAY &B+"PRINTING NOW          "
220: | ENDIF
221:
222: DO CASE
223: | CASE MO=1
224: | SELECT 2
225: | USE &FNAM2 ALIAS II
226: | CASE MO=2
227: | SELECT 5
228: | USE &FNAM5 ALIAS IR
229: | CASE MO=3
230: | SELECT 3
231: | USE &FNAM3 ALIAS PP
232: | CASE MO=4
233: | SELECT 4
234: | USE &FNAM4 ALIAS MM
235: | ENDCASE
236:
237: SELECT 1
238: * OUTPUT ON SCREEN
239: IF Q="S"
240: | DO CASE

```

```

241: CASE ICRHEDK=0
242: DO ICRCRT WITH NO,MO
243: CLEAR
244: FL=1
245: EXIT
246: CASE ICRHEDK=1
247: DO ICRCRT WITH NO,MO
248: CLEAR
249: FL=1
250: EXIT
251: CASE ICRHEDK=4
252: DO PILCRT
253: CLEAR
254: FL=1
255: EXIT
256: CASE ICRHEDK=6
257: DO MBRCRT
258: CLEAR
259: FL=1
260: EXIT
261: ENDCASE
262:
263: * OUTPUT ON PRINTER
264: ELSE
265:
266: DO CASE
267: CASE ICRHEDK=4
268: DO PILPRT
269: LOOP
270: CASE ICRHEDK=6
271: DO MBRPRT
272: LOOP
273: ENDCASE
274:
275: IF MO=1
276: SELECT 2
277: ELSE
278: SELECT 5
279: ENDF
280: SET DEVICE TO PRINT
281:
282: IF MO=1
283: @ 5,30 SAY " INVENTORY CHANGE"
284: ELSE
285: @ 5,30 SAY " INVENTORY CHANGE REPORT"
286: ENDF
287: @ 7, 1 SAY "+-----"
288: @ 7,61 SAY "-----"
289: @ 8, 1 SAY " ORGANIZATION"
290: @ 8,51 SAY " PERIOD COVERED BY REPORT"
291: @ 8,119 SAY " "
292: @ 9, 1 SAY " NAME"
293: @ 9, 17 SAY HH->USRNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
294: @ 9, 51 SAY " FROM"
295: @ 9, 77 SAY HH->REPFM PICTURE '99/99/99'
296: @ 9,119 SAY " "
297: @ 10, 1 SAY " ADDRESS"
298: @ 10, 17 SAY HH->USRPLC PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
299: @ 10, 51 SAY " TO"
300:

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```

301: @ 10, 77 SAY HH->REPTO PICTURE '99/99/99'
302: @ 10,119 SAY " "
303: @ 11, 1 SAY " " FACILITY"
304: @ 11, 17 SAY HH->FCLNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
305: @ 11, 51 SAY " " ;REPORT NO."
306: @ 11, 64 SAY HH->REPNO PICTURE '9999'
307: @ 11,119 SAY " "
308: @ 12, 1 SAY " " MATERIAL BALANCE AREA"
309: @ 12, 29 SAY HH->MBANAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXX'
310: @ 12, 51 SAY " " ;SIGNATURE"
311: @ 12, 64 SAY HH->SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXX'
312: @ 12,119 SAY " "
313: @ 13, 1 SAY " "
314: @ 13,61 SAY " "
315: @ 14, 1 SAY " " ORGANIZATION|FACILITY|MBA |PERIOD COVERED|BY REPORT|"
316: @ 14, 53 SAY " "REPORT ENO.|NUMBER OF ENTRY|SIGNATURE"
317: @ 14,116 SAY " "
318: @ 15, 1 SAY " " | | | | FROM | TO |"
319: @ 15, 53 SAY " "
320: @ 15,116 SAY " "
321: @ 16, 1 SAY " "
322: @ 16, 53 SAY " "
323: @ 16,116 SAY " "
324: @ 17, 1 SAY " "
325: @ 17, 6 SAY HH->USRCD PICTURE 'XXXX'
326: @ 17, 14 SAY " "
327: @ 17, 16 SAY HH->FCLCOD PICTURE 'XXXX'
328: @ 17, 23 SAY " "
329: @ 17, 24 SAY HH->MBACOD PICTURE 'XXXX'
330: @ 17, 28 SAY " "
331: @ 17, 30 SAY HH->REPRM PICTURE '99/99/99'
332: @ 17, 40 SAY " "
333: @ 17, 43 SAY HH->REPTO PICTURE '99/99/99'
334: @ 17, 52 SAY " "
335: @ 17, 57 SAY HH->REPNO PICTURE '9999'
336: @ 17, 64 SAY " "
337: @ 17, 70 SAY HH->ACCLNO PICTURE '99'
338: @ 17, 80 SAY " "
339: @ 17, 81 SAY HH->SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXX'
340: @ 17,116 SAY " "
341: @ 17,118 SAY HH->ICRHEDK PICTURE '9'
342: @ 17,119 SAY " "
343: @ 18, 1 SAY " "
344: @ 18,61 SAY " "
345: @ 19, 1 SAY " " 1 2 3 4 5 6 7 8 9 10 11
346: @ 19,61 SAY " " 12 13 14 15 16 17 18 19 20 21 22 23 24
347: @ 20, 1 SAY " "
348: @ 20,61 SAY " "
349:
350: LOCATE FOR HH->REPNO=RNO
351: DO WHILE HH->REPNO=RNO .AND. .NOT. EOF()
352: STORE 20 TO L
353: DO WHILE L<40
354: STORE L+1 TO L
355: @ L, 1 SAY " "
356: @ L, 2 SAY MBA PICTURE 'XXXX'
357: @ L, 6 SAY " "
358: @ L, 7 SAY RNO PICTURE '9999'
359: @ L, 11 SAY " "
360: @ L, 12 SAY ENO PICTURE '99'

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```

421: STORE L+1 TO L
422: @ L, 3 SAY " 5: DATE OF ENTRY"
423: @ L,33 SAY " 6: DATE OF INVENTORY CHANGE"
424: @ L,63 SAY " 7: KMP CODE (FROM)"
425: @ L,93 SAY " 8: KMP CODE (TO)"
426: STORE L+1 TO L
427: @ L, 3 SAY " 9: TYPE OF INVENTORY CHANGE"
428: @ L,33 SAY "10: KMP CODE"
429: @ L,63 SAY "11: NAME/NO. OF BATCH"
430: @ L,93 SAY "12: NUMBER OF ITEMS IN BATCH"
431: STORE L+1 TO L
432: @ L, 3 SAY "13: MATERIAL DESCRIPTION"
433: @ L,33 SAY "14: ORIGIN OF MATERIAL"
434: @ L,63 SAY "15: ELEMENT CODE"
435: @ L,93 SAY "16: WEIGHT OF ELEMENT"
436: STORE L+1 TO L
437: @ L, 3 SAY "17: UNIT OF WEIGHT"
438: @ L,33 SAY "18: WEIGHT OF FISSILE ISOTOPE"
439: @ L,63 SAY "19: ISOTOPE CODE"
440: @ L,93 SAY "20: MEASUREMENT BASIS"
441: STORE L+1 TO L
442: @ L, 3 SAY "21: CONSIGN NOTE"
443: @ L,33 SAY "22: REPORT NO.(CORRECTION TO)"
444: @ L,63 SAY "23: ENTRY NO.(CORRECTION TO)"
445: @ L,93 SAY "24: TYPE"
446: IF EOF().OR. RNO<>HH->REPNO
447: | EJECT
448: | LOOP
449: ENDF
450: EJECT
451:
452: SELECT 1
453: @ 5,30 SAY " INVENTORY CHANGE REPORT"
454: @ 7, 1 SAY "-----"
455: @ 7,61 SAY "-----"
456: @ 8, 1 SAY " ORGANIZATION"
457: @ 8,51 SAY " PERIOD COVERED BY REPORT"
458: @ 8,119 SAY "-----"
459: @ 9, 1 SAY " NAME"
460: @ 9, 17 SAY USRNM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
461: @ 9, 51 SAY FROM"
462: @ 9, 77 SAY REPPRM PICTURE '99/99/99'
463: @ 9,119 SAY "-----"
464: @ 10, 1 SAY " ADDRESS"
465: @ 10, 17 SAY USRPLC PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
466: @ 10, 51 SAY TO"
467: @ 10, 77 SAY REPTO PICTURE '99/99/99'
468: @ 10,119 SAY "-----"
469: @ 11, 1 SAY " FACILITY"
470: @ 11, 17 SAY FCLNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
471: @ 11, 51 SAY REPORT NO."
472: @ 11, 64 SAY REPNO PICTURE '9999'
473: @ 11,119 SAY "-----"
474: @ 12, 1 SAY " MATERIAL BALANCE AREA"
475: @ 12, 29 SAY MBANAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
476: @ 12, 51 SAY SIGNATURE"
477: @ 12, 64 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
478: @ 12,119 SAY "-----"
479: @ 13, 1 SAY "-----"
480: @ 13,61 SAY "-----"

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```

481: @ 14, 1 SAY "ORGANIZATION|FACILITY|MBA|PERIOD COVEREDBY REPORT|"
482: @ 14, 53 SAY "REPORT BNO.|NUMBER OF ENTRY|SIGNATURE"
483: @ 14,116 SAY "||"
484: @ 15, 1 SAY "||" FROM | TO |"
485: @ 15, 53 SAY "||"
486: @ 15,116 SAY "||"
487: @ 16, 1 SAY "-----"
488: @ 16, 53 SAY "-----"
489: @ 16,116 SAY "-----"
490: @ 17, 1 SAY "||"
491: @ 17, 6 SAY USRCOD PICTURE 'XXXX'
492: @ 17, 14 SAY "||"
493: @ 17, 16 SAY FCLCOD PICTURE 'XXXX'
494: @ 17, 23 SAY "||"
495: @ 17, 24 SAY MBACOD PICTURE 'XXXX'
496: @ 17, 28 SAY "||"
497: @ 17, 30 SAY REPRM PICTURE '99/99/99'
498: @ 17, 40 SAY "||"
499: @ 17, 43 SAY REPTO PICTURE '99/99/99'
500: @ 17, 52 SAY "||"
501: @ 17, 57 SAY REPNO PICTURE '9999'
502: @ 17, 64 SAY "||"
503: @ 17, 70 SAY ACCLNO PICTURE '99'
504: @ 17, 80 SAY "||"
505: @ 17, 81 SAY SIGNAI PICTURE 'XXXXXXXXXXXXXXXXXXXXX'
506: @ 17,118 SAY ICRHEDK PICTURE '9'
507: @ 17,119 SAY "||"
508: @ 18, 1 SAY "-----"
509: @ 18,61 SAY "-----"
510: @ 19, 1 SAY "||" 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10| 11 |"
511: @ 19,61 SAY "12|13|14|15|16|17|18|19|20|21|22|23|24|"
512: @ 20, 1 SAY "-----"
513: @ 20,161 SAY "-----"
514: ENDDO
515: STORE O TO D
516: DO WHILE D<500
517: | STORE D+1 TO D
518: ENDDO
519: SET DEVICE TO SCREEN
520: @ 22,25 SAY &W+"PRINT COMPLETE"
521: ENDDIF
522: ENDDO
523: ENDDO
524:
525:
526:

```

```

1: *****
2: * AUTHORIZ IC REPORT(S) *
3: *****
4: SET PROCEDURE TO ENTICR
5: *PUBLIC WREPNO,Q6,Q7,W MBA
6:
7: CLEAR
8:
9: @ 1,10 SAY &Y+*****
10: @ 2,10 SAY &Y+***** AUTHORIZ IC-REPORTS *****
11: @ 3,10 SAY &Y+***** MBA CODE : "
12: @ 7,10 SAY &Y+***** EXIT WHEN BLANK"
13: @ 17,11 SAY &Y+*****
14:
15: Q=" "
16: DO WHILE .T.
17: @ 7,40 GET Q
18: READ
19: IF Q=" "
20: | RETURN
21: | ENDIF
22:
23: IF .NOT. FILE("A_MBANO.DBF")
24: | @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"
25: | AA=" "
26: | @ 20,65 GET AA
27: | READ
28: | @ 20,20 SAY SPACE(55)
29: | CLOSE DATABASES
30: | CLOSE PROCEDURE
31: | RETURN
32: | ENDIF
33:
34: USE A_MBANO
35: LOCATE FOR MBA=Q
36: IF EOF()
37: | @ 20,20 SAY &R+"MBA CODE("+Q+") DOES NOT EXIST IN MBA FILE"
38: | AA=" "
39: | @ 20,65 GET AA
40: | READ
41: | @ 20,20 SAY SPACE(55)
42: | LOOP
43: | ENDIF
44: NN = LTRIM(STR(RECNO()))
45: FNAM1="A_HEAD"-NN
46: FNAM2="A_IC"-NN
47: FNAM3="A_ICR"-NN
48: FNAM4="A_MBA"
49: FNAM5="A_BOOK"-NN
50: IF .NOT. FILE("&FNAM1..DBF") .OR. .NOT. FILE("&FNAM2..DBF")
51: | @ 20,20 SAY &R+"THERE IS NO REPORT FOR THIS MBA."
52: | AA=" "
53: | @ 20,65 GET AA
54: | READ
55: | @ 20,20 SAY SPACE(55)
56: | LOOP
57: | ENDIF
58: | EXIT
59: ENDDO
60:

```

```

61: *CREATE A_DMY1 FROM STR_PIL
62:
63: SELECT 1
64: USE &FNAM1 ALIAS HD
65: SELECT 2
66: USE &FNAM2 ALIAS II
67: SELECT 3
68: USE &FNAM4 ALIAS MB
69: SELECT 6
70: USE &FNAM3 ALIAS IR
71: SELECT 5
72: USE &FNAM5 ALIAS BB
73:
74: FNAM2="A_MBR"+NN
75: FNAM1="A_PIL"+NN
76:
77: IF .NOT. FILE("&FNAM1..DBF")
78:     *SELECT 4
79:     *CREATE &FNAM1 FROM STR_PIL
80:     COPY FILE STR_PIL.DBF TO &FNAM1..DBF
81: ENDIF
82: IF .NOT. FILE("&FNAM2..DBF")
83:     *SELECT 7
84:     *CREATE &FNAM2 FROM STR_MBR
85:     COPY FILE STR_MBR.DBF TO &FNAM2..DBF
86: ENDIF
87:
88: SELECT 4
89: USE &FNAM1 ALIAS PP
90: SELECT 7
91: USE &FNAM2 ALIAS MM
92:
93: SELECT 1
94:
95: *CNTAUT=0
96: *ARECNT=RECC()
97: *COUNT TO ARECNT
98: *ARECNO=0
99: *GOTO 1
100:
101: LFLG=" "
102: DO WHILE .T.
103:
104: CLEAR
105: ?? &Y
106: @ 1,10 SAY "IC REPORT No. THAT CAN BE AUTHORIZED ."
107: SELECT 1
108: LOCATE FOR ICRHEK=0 .AND. AUTHOF=" "
109: IF EOF()
110:     AA=" "
111:     @ 3,15 SAY &W+"THERE IS NO MORE IC REPORT THAT CAN BE AUTHORIZED" GET AA
112: READ
113: CLOSE DATABASES
114: CLOSE PROCEDURE
115: RETURN
116: ENDIF
117:
118: AARNO=REPNO
119: LL=2
120: DO WHILE .T.

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121: LL=LL+1
122: NN=1
123: COL=15
124: DO WHILE NN<=10
125: IF EOF()
126: | | EXIT
127: ENDF
128: COL=COL+5
129: @ LL,COL SAY REPNO PICTURE "9999"
130: CONTINUE
131: NN=NN+1
132: ENDDO
133: IF EOF()
134: | | EXIT
135: ENDF
136: ENDDO
137:
138: IF LFLG=" "
139: ARNO=0
140: DO WHILE .T.
141: @ 6,20 SAY "SELECT REPORT NO. " GET ARNO
142: ?? &Y
143: @ 7,20 SAY " ( RETURN TO FARMS MENU WHEN '0' INDICATED )"
144: READ
145: IF ARNO=0
146: | | CLOSE DATABASES
147: | | CLOSE PROCEDURE
148: | | RETURN
149: ENDF
150: LOCATE FOR REPNO=ARNO
151: IF ICRHEDK<>0 .OR. AUTHOF<> "
152: | | LOOP
153: ENDF
154: EXIT
155: ENDDO
156: NREC=RECNO()
157: WREPNO=REPNO
158: Q5=ENTDAT
159: Q6=REPPFRM
160: Q7=REPTO
161: WMBA=MBACOD
162: WORC=USRCOD
163: WDAT=ENTDAT
164: WFCL=FCLCOD
165: Q3=MBACOD
166: Q9=SIGNAT
167: Q1=FCLCOD
168: Q2=FCLNAM
169: Q4=MBANAM
170: Q8=ACCLNO
171: ELSE
172: @ 6,20 SAY "SELECTED REPORT NO. IS " +STR(ARNO,2)
173: ENDF
174:
175: ?? &Y
176: @ 8,10 SAY "***** AUTHORIZE MENU *****"
177: @ 10,10 SAY " 0. SELECT ANOTHER REPORT"
178: @ 11,10 SAY " 1. DISPLAY REPORT"
179: * @ 12,10 SAY " 2. CHECK REEPORT"
180: * @ 13,10 SAY " 3. CORRECT HEADER (DATE/PERIOD)"

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181: @ 14,10 SAY " 4. CORRECT ENTRIES"
182: @ 12,10 SAY " 2. AUTHORIZE"
183: SELNO=0
184: DO WHILE .T.
185: @ 15,10 SAY " SELECT No. " GET SELNO
186: READ
187: IF SELNO>2
188: -- LOOP
189: ENDFI
190: EXIT
191: ENDDO
192: LFLG="*"
193: DO CASE
194: CASE SELNO=0
195: LFLG=" "
196: LOOP
197: CASE SELNO=1
198: LSTFLG=2
199: DO DSPICR
200: LOOP
201: * CASE SELNO=2
202: * LSTFLG=3
203: * DO ALLCHK
204: * LOOP
205: * CASE SELNO=3
206: * DO CORHED WITH 0
207: * LOOP
208: * CASE SELNO=4
209: * DO CORRICR
210: * LOOP
211: CASE SELNO=2 .AND. ARNO<>AARNO
212: AA=" "
213: @ 19,20 SAY &R+"CAN NOT AUTHORIZE BECAUSE IC REPORT"
214: @ 20,20 SAY &R+"WHICH HAS NOT DONE STILL EXIST IN THIS REPORT."
215: @ 22,20 SAY &C+"PRESS ANY KEY" GET AA
216: READ
217: @ 19,20 SAY SPACE(40)
218: @ 20,20 SAY SPACE(50)
219: @ 22,20 SAY SPACE(40)
220: LOOP
221: ENDCASE
222:
223: ***** CASE 5 *****
224:
225: * CHECK ERROR DATA PENDED
226: SELECT 2
227: LOCATE FOR RNO=WREPNO
228: DO WHILE RNO=WREPNO .AND. .NOT. EOF()
229: IF ERRFL="*"
230: -- EXIT
231: ENDFI
232: CONTINUE
233: ENDDO
234: IF .NOT. EOF()
235: IF RNO=WREPNO .AND. ERRFL="*"
236: AA=" "
237: @ 19,20 SAY &R+"ERROR DATA EXIST IN THIS IC REPORT"
238: @ 20,20 SAY &R+" --> FAILED TO AUTHORIZE"
239: @ 22,20 SAY &G+" PRESS ANY KEY " GET AA
240: READ

```

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241: @ 19,20 SAY SPACE(40)
242: @ 20,20 SAY SPACE(40)
243: @ 21,20 SAY SPACE(40)
244: LOOP
245: ENDIF
246: ENDIF
247:
248: * AUTHORIZE
249:
250: @ 19,20 SAY &B*"AUTHORIZING..... "
251: SELECT 2
252: LOCATE FOR RNO=WREPNO .AND. CORRNO<>0
253: IF .NOT. EOF()
254: *****
255: * UPDATE MBR AND BI FILES BY CORRECTION DATA *
256: *****
257: WMBA=HD->MBACOD
258: WORG=HD->USRCOD
259: WFCL=HD->FCLCOD
260: WREPNOF=WREPNO
261: WREPNOF=WREPNO+1
262: ENNP=0
263: ENN=0
264:
265: SELECT 2
266: LOCATE FOR RNO=WREPNO
267: DO WHILE .T.
268: IF EOF()
269: || EXIT
270: ENDIF
271:
272: IF CORRNO=0
273: || SKIP
274: || LOOP
275: ENDIF
276:
277: NRECIC=RECNO()
278: WTYPN=CHGTYP
279: CRNO=CORRNO
280: CENO=CORRENO
281:
282: LOCATE FOR RNO=CRNO .AND. ENO=CENO
283: WTYP=CHGTYP
284: DATE=CHGDAT
285: NRECL=RECNO()
286:
287: *-----
288: * P/L AND MBR*
289: *-----
290:
291: SELECT 1
292: GO TOP
293: DO WHILE .NOT. EOF()
294: || IF DATE>REPTO .OR. ICRHEDK<>6
295: || SKIP
296: || LOOP
297: ENDIF
298: HREC=RECNO()
299: CREPT=REPNO
300: FRPRD=REPFPM

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```

301: SELECT 2
302: GOTO NRECL
303:
304:
305: *-----
306: * P1L*
307: *-----
308:
309: IF P1LOPT=2
310: SELECT 1
311: LOCATE FOR REPNO=CREPT-1
312: CORENO=ACCLNO
313:
314: WREPNOF=WREPNO+1
315: SELECT 4
316:
317: LOCATE FOR PILD02=CREPT-1 .AND. PILD06=II->BATNO .AND. ;
318: PILD10=II->ACCECD .AND. PILD14=II->ACCICD
319: IF .NOT. EOF ( )
320: P18=PILD03
321: IF II->CHGTYP="NP " .OR. SUBSTR(II->CHGTYP,1,1)="R"
322: ENNP=ENNP+1
323: APPEND BLANK
324: REPLACE PILD01 WITH II->MBA
325: REPLACE PILD02 WITH WREPNOF
326: REPLACE PILD03 WITH ENNP
327: REPLACE PILD05 WITH II->CNTRYT
328: REPLACE PILD06 WITH II->BATNO
329: REPLACE PILD08 WITH II->MATDSC
330: REPLACE PILD09 WITH II->ACCORG
331: REPLACE PILD10 WITH II->ACCECD
332: REPLACE PILD12 WITH II->ACCUNT
333: REPLACE PILD14 WITH II->ACCICD
334: REPLACE PILD15 WITH II->MESBCD
335: REPLACE PILD17 WITH CREPT-1
336: REPLACE PILD18 WITH P18
337: REPLACE PILD19 WITH 5
338: ENDIF
339:
340: IF II->CHGTYP="LN "
341: COREWT=PILD11+II->ACCEWT
342: CORIWT=PILD13+II->ACCFIWT
343: ENNP=ENNP+1
344: IF P18=0
345: CORENO=CORENO+1
346: P18=CORENO
347: ENDIF
348: APPEND BLANK
349: REPLACE PILD01 WITH II->MBA
350: REPLACE PILD02 WITH WREPNOF
351: REPLACE PILD03 WITH ENNP
352: REPLACE PILD05 WITH II->CNTRYF
353: REPLACE PILD06 WITH II->BATNO
354: REPLACE PILD07 WITH II->BATITMS
355: REPLACE PILD08 WITH II->MATDSC
356: REPLACE PILD09 WITH II->ACCORG
357: REPLACE PILD10 WITH II->ACCECD
358: REPLACE PILD11 WITH COREWT
359: REPLACE PILD12 WITH II->ACCUNT
360: REPLACE PILD13 WITH CORIWT

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361: REPLACE PILD14 WITH II->ACCICD
362: REPLACE PILD15 WITH II->MESBCD
363: REPLACE PILD17 WITH CREPT-1
364: REPLACE PILD18 WITH P18
365: REPLACE PILD19 WITH 5
366: ENDIF
367:
368: IF II->CHGTYP="TR "
369: ENNP=ENNP+1
370: APPEND BLANK
371: REPLACE PILD01 WITH II->MBA
372: REPLACE PILD02 WITH WREPNOB
373: REPLACE PILD03 WITH ENNP
374: REPLACE PILD05 WITH II->CNTRYF
375: REPLACE PILD06 WITH II->BAINO
376: REPLACE PILD07 WITH II->BATITMS
377: REPLACE PILD08 WITH II->MATDSC
378: REPLACE PILD09 WITH II->ACORG
379: REPLACE PILD10 WITH II->ACCECD
380: REPLACE PILD11 WITH II->ACCEWT
381: REPLACE PILD12 WITH II->ACCEWT
382: REPLACE PILD13 WITH II->ACCFIWT
383: REPLACE PILD14 WITH II->ACCICD
384: REPLACE PILD15 WITH II->MESBCD
385: REPLACE PILD17 WITH CREPT-1
386: REPLACE PILD18 WITH P18
387: REPLACE PILD19 WITH 5
388: ENDIF
389:
390:
391: IF SUBSTR(II->CHGTYP,1,1)="S"
392: ENNP=ENNP+1
393: APPEND BLANK
394: REPLACE PILD01 WITH II->MBA
395: REPLACE PILD02 WITH WREPNOB
396: REPLACE PILD03 WITH ENNP
397: REPLACE PILD05 WITH II->CNTRYF
398: REPLACE PILD06 WITH II->BATNO
399: REPLACE PILD07 WITH II->BATITMS
400: REPLACE PILD08 WITH II->MATDSC
401: REPLACE PILD09 WITH II->ACORG
402: REPLACE PILD10 WITH II->ACCECD
403: REPLACE PILD11 WITH II->ACCEWT
404: REPLACE PILD12 WITH II->ACCEWT
405: REPLACE PILD13 WITH II->ACCFIWT
406: REPLACE PILD14 WITH II->ACCICD
407: REPLACE PILD15 WITH II->MESBCD
408: REPLACE PILD17 WITH CREPT-1
409: REPLACE PILD19 WITH 5
410: CORENO=CORENO+1
411: REPLACE PILD18 WITH CORENO
412: ENDIF
413:
414: *-----
415: * MBR*
416: *-----
417:
418: SELECT 2
419: IF CHGTYP="NP " .OR. SUBSTR(CHGTYP,1,1)="R"
420: EWT=-ACCEWT

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421: IWT=-ACCFIWT
422: ELSE
423: EWT=ACCEWT
424: IWT=ACCFIWT
425: ENDIF
426: AEWT=ACCEWT
427: AIWT=ACCFIWT
428:
429: IF CHGTYP<>"TR "
430: SELECT 7
431:
432: LOCATE FOR MBRD02=CREPT .AND. MBRD07=LI->ACCECD .AND.;
433: MBRD11=LI->ACCICD
434: DO WHILE .NOT. EOF() .AND. MBRD02=CREPT .AND. MBRD07=LI->ACCECD;
435: .AND. MBRD11=LI->ACCICD
436: MREC=RECNO()
437: CORFLG=0
438:
439: IF MBRD05="PB " .OR. MBRD05="RA "
440: | SKIP
441: | LOOP
442: | ENDIF
443:
444: IF MBRD05="BE " .OR. MBRD05="BA "
445: | COREWT=MBRD08+EWT
446: | CORIWT=MBRD10+IWT
447: | CORFLG=1
448: | ENDIF
449:
450: IF MBRD05="MF " .AND. PILOPT=1
451: | COREWT=MBRD08-EWT
452: | CORIWT=MBRD10-IWT
453: | CORFLG=1
454: | ENDIF
455:
456: IF DATE>=PRPRD
457: | IF MBRD05=LI->CHGTYP
458: | | COREWT=MBRD08-AEWT
459: | | CORIWT=MBRD10-AIWT
460: | | CORFLG=1
461: | | ENDIF
462: | ENDIF
463:
464: IF MBRD05="PE " .AND. PILOPT=2
465: | COREWT=MBRD08+EWT
466: | CORIWT=MBRD10+IWT
467: | CORFLG=1
468: | ENDIF
469:
470: IF CORFLG=1
471: | WREPNO=WRPNOP+1
472: | M1 =MBRD01
473: | M4 =MBRD04
474: | M5 =MBRD05
475: | M6 =MBRD06
476: | M7 =MBRD07
477: | M9 =MBRD09
478: | M11=MSRD11
479: | M14=MBRD03
480: | ENN=ENN+1

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481:
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483:
484:
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540:

APPEND BLANK
REPLACE MBRD01 WITH M1
REPLACE MBRD02 WITH WREPNO
REPLACE MBRD03 WITH ENN
REPLACE MBRD04 WITH M4
REPLACE MBRD05 WITH M5
REPLACE MBRD06 WITH M6
REPLACE MBRD07 WITH M7
REPLACE MBRD08 WITH COREWT
REPLACE MBRD09 WITH M9
REPLACE MBRD10 WITH CORIWT
REPLACE MBRD11 WITH M11
REPLACE MBRD13 WITH CREPT
REPLACE MBRD14 WITH M14
REPLACE MBRD15 WITH 7
ENDIF

GOTO MBREC
SKIP
ENDDO
ENDIF

*-----*
* * CORRECT P/L , MBR FILE BY ICR-CORRECTION DATA *
*-----*

SELECT 2
GOTO NRECIC

* P/L
IF P/LOPT=2
SELECT 4
P/LFLG=0
LOCATE FOR PILD02=WREPNO .AND. PILD06=II->BATNO .AND. ;
PILD10=II->ACCECD .AND. PILD14=II->ACCICD
DO WHILE .NOT. EOF()

IF PILD17<>CREPT-1
CONTINUE
LOOP
ENDIF
P/LFLG=1
IF II->CHGTYP="TR "
REPLACE PILD05 WITH II->CNTRYT
ENDIF

IF II->CHGTYP="LN "
REPLACE PILD11 WITH PILD11-II->ACCEWT
REPLACE PILD13 WITH PILD13-II->ACCFIWT
SELECT 3
LOCATE FOR FRKMP=II->CNTRYF .AND. KMP<>II->KMP
SELECT 4
REPLACE PILD05 WITH SUBSTR(MB->TOKMP,1,1)
ENDIF

IF SUBSTR(II->CHGTYP,1,1)="S"
REPLACE PILD11 WITH 0.
REPLACE PILD13 WITH 0.

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541: ENDIF
542: IF SUBSTR(II->CHGTYP,1,1)="R" .OR. II->CHGTYP="NP "
543: REPLACE PILD11 WITH II->ACCEWT
544: REPLACE PILD13 WITH II->ACCFIWT
545: REPLACE PILD07 WITH II->BATITMS
546:
547: ENDIF
548: EXIT
549: ENDDO
550: IF PILD1G=0
551: LOCATE FOR PILD02=CREPT-1 .AND. PILD06=II->BATNO .AND. ;
552: PILD10=II->ACCECD .AND. PILD14=II->ACCICD
553: IF .NOT. EOF()
554: P18=PILD03
555:
556: IF II->CHGTYP="LN "
557: NBAT=PILD07-II->BATITMS
558: EWT=PILD11-II->ACCEWT
559: IWT=PILD13-II->ACCFIWT
560: SELECT 3
561: LOCATE FOR FRKMP=II->CNTRYF .AND. KMP<>II->KMP
562: SELECT 4
563: TKMP=SUBSTR(MB->TKMP,1,1)
564:
565: ENNP=ENNP+1
566: APPEND BLANK
567: REPLACE PILD01 WITH II->MBA
568: REPLACE PILD02 WITH WREPNOF
569: REPLACE PILD03 WITH ENNP
570: REPLACE PILD05 WITH TKMP
571: REPLACE PILD06 WITH II->BATNO
572: REPLACE PILD07 WITH NBAT
573: REPLACE PILD08 WITH II->MATDSC
574: REPLACE PILD09 WITH II->ACCCORG
575: REPLACE PILD10 WITH II->ACCECD
576: REPLACE PILD11 WITH EWT
577: REPLACE PILD12 WITH II->ACCUNT
578: REPLACE PILD13 WITH IWT
579: REPLACE PILD14 WITH II->ACCICD
580: REPLACE PILD15 WITH II->MESBCD
581: REPLACE PILD17 WITH CREPT-1
582: REPLACE PILD18 WITH P18
583: REPLACE PILD19 WITH 5
584:
585: ENDIF
586: IF SUBSTR(II->CHGTYP,1,1)="S"
587: ENNP=ENNP+1
588: APPEND BLANK
589: REPLACE PILD01 WITH II->MBA
590: REPLACE PILD02 WITH WREPNOF
591: REPLACE PILD03 WITH ENNP
592: REPLACE PILD05 WITH II->CNTRYT
593: REPLACE PILD06 WITH II->BATNO
594: REPLACE PILD08 WITH II->MATDSC
595: REPLACE PILD09 WITH II->ACCCORG
596: REPLACE PILD10 WITH II->ACCECD
597: REPLACE PILD12 WITH II->ACCUNT
598: REPLACE PILD14 WITH II->ACCICD
599: REPLACE PILD15 WITH II->MESBCD
600: REPLACE PILD17 WITH CREPT-1

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601:      REPLACE PILD18 WITH P18
602:      REPLACE PILD19 WITH 5
603:      ENDIF
604:
605:      IF CHGTYP="TR "
606:          ENNP=ENNP+1
607:          APPEND BLANK
608:          REPLACE PILD01 WITH II->MBA
609:          REPLACE PILD02 WITH WREPNO
610:          REPLACE PILD03 WITH ENNP
611:          REPLACE PILD05 WITH II->CNTRYT
612:          REPLACE PILD06 WITH II->BATNO
613:          REPLACE PILD07 WITH II->BATITMS
614:          REPLACE PILD08 WITH II->MATDSC
615:          REPLACE PILD09 WITH II->ACCORG
616:          REPLACE PILD10 WITH II->ACCED
617:          REPLACE PILD11 WITH II->ACCEWT
618:          REPLACE PILD12 WITH II->ACCEWT
619:          REPLACE PILD13 WITH II->ACCFIWT
620:          REPLACE PILD14 WITH II->ACCICD
621:          REPLACE PILD15 WITH II->MESBCD
622:          REPLACE PILD17 WITH CREPT-1
623:          REPLACE PILD18 WITH P18
624:          REPLACE PILD19 WITH 5
625:          ENDIF
626:
627:      ELSE
628:          ENNP=ENNP+1
629:          CORENP=CORENO+1
630:          APPEND BLANK
631:          REPLACE PILD01 WITH II->MBA
632:          REPLACE PILD02 WITH WREPNO
633:          REPLACE PILD03 WITH ENNP
634:          REPLACE PILD05 WITH II->CNTRYT
635:          REPLACE PILD06 WITH II->BATNO
636:          REPLACE PILD07 WITH II->BATITMS
637:          REPLACE PILD08 WITH II->MATDSC
638:          REPLACE PILD09 WITH II->ACCORG
639:          REPLACE PILD10 WITH II->ACCED
640:          REPLACE PILD11 WITH II->ACCEWT
641:          REPLACE PILD12 WITH II->ACCEWT
642:          REPLACE PILD13 WITH II->ACCFIWT
643:          REPLACE PILD14 WITH II->ACCICD
644:          REPLACE PILD15 WITH II->MESBCD
645:          REPLACE PILD17 WITH CREPT-1
646:          REPLACE PILD18 WITH CORENP
647:          REPLACE PILD19 WITH 5
648:          ENDIF
649:      ENDIF
650:
651:
652:
653:      *      MBR
654:
655:      IF II->CHGTYP<>"TR "
656:          IF II->CHGTYP="LN " .OR. SUBSTR(II->CHGTYP,1,1)="S"
657:              EWT=II->ACCEWT
658:              IWT=II->ACCFIWT
659:              ELSE
660:                  EWT=II->ACCEWT
661:                  IWT=II->ACCFIWT

```

```

661: ENDDIF
662: AEWT=II->ACCEWT
663: AIWT=II->ACCFIWT
664:
665: SELECT 7
666: LOCATE FOR MBRD02=WREPNO .AND. MBRD07=II->ACCECD .AND. ;
667: MBRD11=II->ACCICD
668:
669: DO WHILE .T.
670: IF EOF()
671: LOCATE FOR MBRD02=CREPT .AND. MBRD07=II->ACCECD .AND. ;
672: MBRD11=II->ACCICD
673: IF EOF()
674: * NEW "NP" OR "R"
675: SELECT 1
676: LOCATE FOR REPNO=CREPT
677: CREPNO=ACCLNO
678: SELECT 7
679:
680: ENN=ENN+1
681: CORENOM=CORENOM+1
682: APPEND BLANK
683: REPLACE MBRD01 WITH II->MBA
684: REPLACE MBRD02 WITH WREPNO
685: REPLACE MBRD03 WITH ENN
686: REPLACE MBRD05 WITH "PB "
687: REPLACE MBRD06 WITH II->ACCORG
688: REPLACE MBRD07 WITH II->ACCECD
689: REPLACE MBRD08 WITH 0.0
690: REPLACE MBRD09 WITH II->ACCUNT
691: REPLACE MBRD10 WITH 0.0
692: REPLACE MBRD11 WITH II->ACCICD
693: REPLACE MBRD13 WITH CREPT
694: REPLACE MBRD14 WITH CORENOM
695: REPLACE MBRD15 WITH 7
696:
697: IF DATE>=FPRD
698: * RF
699: ENN=ENN+1
700: CORENOM=CORENOM+1
701: APPEND BLANK
702: REPLACE MBRD01 WITH II->MBA
703: REPLACE MBRD02 WITH WREPNO
704: REPLACE MBRD03 WITH ENN
705: REPLACE MBRD05 WITH "RF "
706: REPLACE MBRD06 WITH II->ACCORG
707: REPLACE MBRD07 WITH II->ACCECD
708: REPLACE MBRD08 WITH 0.0
709: REPLACE MBRD09 WITH II->ACCUNT
710: REPLACE MBRD10 WITH 0.0
711: REPLACE MBRD11 WITH II->ACCICD
712: REPLACE MBRD13 WITH CREPT
713: REPLACE MBRD14 WITH CORENOM
714: REPLACE MBRD15 WITH 7
715: IF II->CHGTYP="RF "
716: REPLACE MBRD08 WITH II->ACCEWT
717: REPLACE MBRD10 WITH II->ACCFIWT
718: ENDDIF
719:
720: * NP

```

```

721: ENN=ENN+1
722: CORENOM=CORENOM+1
723: APPEND BLANK
724: REPLACE MBRD01 WITH II->MBA
725: REPLACE MBRD02 WITH WREPNO
726: REPLACE MBRD03 WITH ENN
727: REPLACE MBRD05 WITH "NP "
728: REPLACE MBRD06 WITH II->ACCORG
729: REPLACE MBRD07 WITH II->ACCECD
730: REPLACE MBRD08 WITH 0.0
731: REPLACE MBRD09 WITH II->ACCUNT
732: REPLACE MBRD10 WITH 0.0
733: REPLACE MBRD11 WITH II->ACCICD
734: REPLACE MBRD13 WITH CREPT
735: REPLACE MBRD14 WITH CORENOM
736: REPLACE MBRD15 WITH 7
737: IF II->CHGTYP="NP "
738: ! REPLACE MBRD08 WITH II->ACCEWT
739: ! REPLACE MBRD10 WITH II->ACCFIWT
740: ENDIF
741:
742:
743: * SF
744: ENN=ENN+1
745: CORENOM = CORENOM+1
746: APPEND BLANK
747: REPLACE MBRD01 WITH II->MBA
748: REPLACE MBRD02 WITH WREPNO
749: REPLACE MBRD03 WITH ENN
750: REPLACE MBRD05 WITH "SF "
751: REPLACE MBRD06 WITH II->ACCORG
752: REPLACE MBRD07 WITH II->ACCECD
753: REPLACE MBRD08 WITH 0.0
754: REPLACE MBRD09 WITH II->ACCUNT
755: REPLACE MBRD10 WITH 0.0
756: REPLACE MBRD11 WITH II->ACCICD
757: REPLACE MBRD13 WITH CREPT
758: REPLACE MBRD14 WITH CORENOM
759: REPLACE MBRD15 WITH 7
760: IF II->CHGTYP="SF "
761: ! REPLACE MBRD08 WITH II->ACCEWT
762: ! REPLACE MBRD10 WITH II->ACCFIWT
763: ENDIF
764:
765: * LN
766: ENN=ENN+1
767: CORENOM=CORENOM+1
768: APPEND BLANK
769: REPLACE MBRD01 WITH II->MBA
770: REPLACE MBRD02 WITH WREPNO
771: REPLACE MBRD03 WITH ENN
772: REPLACE MBRD05 WITH "LN "
773: REPLACE MBRD06 WITH II->ACCORG
774: REPLACE MBRD07 WITH II->ACCECD
775: REPLACE MBRD08 WITH 0.0
776: REPLACE MBRD09 WITH II->ACCUNT
777: REPLACE MBRD10 WITH 0.0
778: REPLACE MBRD11 WITH II->ACCICD
779: REPLACE MBRD13 WITH CREPT
780: REPLACE MBRD14 WITH CORENOM
781: REPLACE MBRD15 WITH 7

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```

781: IF II->CHGTP="LN "
782: REPLACE MBRD08 WITH II->ACCEWT
783: REPLACE MBRD10 WITH II->ACCFIWT
784: ENDIF
785: ENDF
786:
787: * BE
788: ENN=ENN+1
789: CORENOM=CORENOM+1
790: APPEND BLANK
791: REPLACE MBRD01 WITH II->MBA
792: REPLACE MBRD02 WITH WREPNO
793: REPLACE MBRD03 WITH ENN
794: REPLACE MBRD05 WITH "BE "
795: REPLACE MBRD06 WITH II->ACCORG
796: REPLACE MBRD07 WITH II->ACCECD
797: REPLACE MBRD08 WITH II->ACCEWT
798: REPLACE MBRD09 WITH II->ACCU
799: REPLACE MBRD10 WITH II->ACCFIWT
800: REPLACE MBRD11 WITH II->ACCICD
801: REPLACE MBRD13 WITH CREPT
802: REPLACE MBRD14 WITH CORENOM
803: REPLACE MBRD15 WITH 7
804:
805: * BA
806: ENN=ENN+1
807: CORENOM=CORENOM+1
808: APPEND BLANK
809: REPLACE MBRD01 WITH II->MBA
810: REPLACE MBRD02 WITH WREPNO
811: REPLACE MBRD03 WITH ENN
812: REPLACE MBRD05 WITH "BA "
813: REPLACE MBRD06 WITH II->ACCORG
814: REPLACE MBRD07 WITH II->ACCECD
815: REPLACE MBRD08 WITH II->ACCEWT
816: REPLACE MBRD09 WITH II->ACCU
817: REPLACE MBRD10 WITH II->ACCFIWT
818: REPLACE MBRD11 WITH II->ACCICD
819: REPLACE MBRD13 WITH CREPT
820: REPLACE MBRD14 WITH CORENOM
821: MBRD15=7
822:
823: * PE
824: ENN=ENN+1
825: CORENOM=CORENOM+1
826: APPEND BLANK
827: REPLACE MBRD01 WITH II->MBA
828: REPLACE MBRD02 WITH WREPNO
829: REPLACE MBRD03 WITH ENN
830: REPLACE MBRD05 WITH "PE "
831: REPLACE MBRD06 WITH II->ACCORG
832: REPLACE MBRD07 WITH II->ACCECD
833: REPLACE MBRD08 WITH II->ACCEWT
834: REPLACE MBRD09 WITH II->ACCU
835: REPLACE MBRD10 WITH II->ACCFIWT
836: REPLACE MBRD11 WITH II->ACCICD
837: REPLACE MBRD13 WITH CREPT
838: REPLACE MBRD14 WITH CORENOM
839: REPLACE MBRD15 WITH 7
840:

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```

841: * MF
842: ENN=ENN+1
843: CORENOM=CORENOM+1
844: APPEND BLANK
845: REPLACE MBRD01 WITH II->MBA
846: REPLACE MBRD02 WITH WREPNO
847: REPLACE MBRD03 WITH ENN
848: REPLACE MBRD05 WITH "MF "
849: REPLACE MBRD06 WITH II->ACCORG
850: REPLACE MBRD07 WITH II->ACCCECD
851: REPLACE MBRD08 WITH 0.0
852: REPLACE MBRD09 WITH II->ACCUNT
853: REPLACE MBRD10 WITH 0.0
854: REPLACE MBRD11 WITH II->ACCICD
855: REPLACE MBRD13 WITH CREPT
856: REPLACE MBRD14 WITH CORENOM
857: REPLACE MBRD15 WITH 7
858:
859: * RA
860: ENN=ENN+1
861: CORENOM=CORENOM+1
862: APPEND BLANK
863: REPLACE MBRD01 WITH II->MBA
864: REPLACE MBRD02 WITH WREPNO
865: REPLACE MBRD03 WITH ENN
866: REPLACE MBRD05 WITH "RA "
867: REPLACE MBRD06 WITH II->ACCORG
868: REPLACE MBRD07 WITH II->ACCCECD
869: REPLACE MBRD08 WITH 0.0
870: REPLACE MBRD09 WITH II->ACCUNT
871: REPLACE MBRD10 WITH 0.0
872: REPLACE MBRD11 WITH II->ACCICD
873: REPLACE MBRD13 WITH CREPT
874: REPLACE MBRD14 WITH CORENOM
875: REPLACE MBRD15 WITH 7
876:
877: ELSE
878:
879: DO WHILE MBRD02=CREPT .AND. MBRD07=II->ACCCECD .AND. ;
880: MBRD11=II->ACCICD .AND. .NOT. EOF ( )
881: MREC=RECNO ( )
882: COREFLG=0
883:
884: IF MBRD05="PB " .OR. MBRD05="RA "
885: | SKIP
886: | LOOP
887: | ENDIF
888:
889: IF MBRD05="BE " .OR. MBRD05="BA "
890: | COREWT=MBRD08+EWT
891: | COREWT=MBRD10+IWT
892: | COREWT=MBRD10+IWT
893: | COREFLG=1
894: | ENDIF
895:
896: IF MBRD05="MF " .AND. PILOPT=1
897: | COREWT=MBRD08-EWT
898: | COREWT=MBRD10-IWT
899: | COREFLG=1
900: | ENDLF

```

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901:
902: IF DATE>=FPRD
903: IF MBRD05=II->CHGTYP
904: COREWT=MBRD08+AEWT
905: CORIWT=MBRD10+AIWT
906: CORFLG=1
907: ENDIF
908: ENDIF
909:
910: IF MBRD05="PE " .AND. PILOPT=2
911: COREWT=MBRD08+EWI
912: CORIWT=MBRD10+IWT
913: CORFLG=1
914: ENDIF
915:
916: IF CORFLG=1
917: WREPNO=WREPNO+2
918: M1 =MBRD01
919: M4 =MBRD04
920: M5 =MBRD05
921: M6 =MBRD06
922: M7 =MBRD07
923: M9 =MBRD09
924: M11=MBRD11
925: M14=MBRD03
926: ENN=ENN+1
927:
928: APPEND BLANK
929: REPLACE MBRD01 WITH M1
930: REPLACE MBRD02 WITH WREPNO
931: REPLACE MBRD03 WITH ENN
932: REPLACE MBRD04 WITH M4
933: REPLACE MBRD05 WITH M5
934: REPLACE MBRD06 WITH M6
935: REPLACE MBRD07 WITH M7
936: REPLACE MBRD08 WITH COREWT
937: REPLACE MBRD09 WITH M9
938: REPLACE MBRD10 WITH CORIWT
939: REPLACE MBRD11 WITH M11
940: REPLACE MBRD13 WITH CREPT
941: REPLACE MBRD14 WITH M14
942: REPLACE MBRD15 WITH 7
943:
944: ENDIF
945: GOTO MBRD05
946: SKIP
947: ENDDO
948: ENDIF
949: ELSE
950: IF MBRD13<>CREPT
951: CONTINUE
952: LOOP
953: ENDIF
954: DO WHILE .NOT. EOF() .AND. MBRD02=WREPNO .AND.;
955: MBRD07=II->ACCECD .AND. MBRD11=II->ACCICD
956:
957: IF MBRD05="PB " .OR. MBRD05="RA "
958: SKIP
959: LOOP
960: ENDIF

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961: IF MBRD05="BE " .OR. MBRD05="BA "
962: REPLACE MBRD08 WITH MBRD08+EWT
963: REPLACE MBRD10 WITH MBRD10+IWT
964: ENDIF
965:
966: IF MBRD05="MF " .AND. PILOPT=1
967: REPLACE MBRD08 WITH MBRD08+EWT
968: REPLACE MBRD10 WITH MBRD10+IWT
969: ENDIF
970:
971: IF MBRD05=II->CHGTYP
972: REPLACE MBRD08 WITH MBRD08+AEWT
973: REPLACE MBRD10 WITH MBRD10+AIWT
974: ENDIF
975:
976: IF PILOPT=2 .AND. MBRD05="PE "
977: REPLACE MBRD08 WITH MBRD08+EWT
978: REPLACE MBRD10 WITH MBRD10+IWT
979: ENDIF
980:
981: SKIP
982: ENDDO
983: ENDF
984: EXIT
985: ENDDO
986:
987: ENDF
988: SELECT 1
989: GOTO HRRRC
990: SKIP
991: ENDDO
992: SELECT 2
993: GOTO NRECIC
994: SKIP
995: ENDDO
996:
997: IF PILOPT=2
998: SA=0
999: SELECT 4
1000: LOCATE FOR PILD02=WREPNO
1001: DO WHILE .NOT. EOF() .AND. PILD02=WREPNO
1002: SELECT 3
1003: LOCATE FOR KMP=PP->PILD05
1004: IF EOF()
1005: SELECT 4
1006: SA=SA+1
1007: REPLACE PILD03 WITH 0
1008: ELSE
1009: SELECT 4
1010: REPLACE PILD03 WITH PILD03-SA
1011: ENDF
1012: SKIP
1013: ENDDO
1014: ENNP=ENNP-SA
1015: ENDF
1016:
1017: * CREATE HEADER
1018: SELECT 1
1019: GOTO BOTTOM
1020: H1=REPFM

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1021: H2=REPTO
1022: H3=ENTDAT
1023: H4=USRCOD
1024: H5=USRNAM
1025: H6=USRPLC
1026: H7=FCLCOD
1027: H8=FCLNAM
1028: H9=MBACOD
1029: H10=MBANAM
1030: H11=SIGNAT
1031:
1032: IF ENNP<>0
1033:   APPEND BLANK
1034:   REPLACE REPNO WITH WREPNO
1035:   REPLACE REPRM WITH H2
1036:   REPLACE ENTDAT WITH H3
1037:   REPLACE USRCOD WITH H4
1038:   REPLACE USRNAM WITH H5
1039:   REPLACE USRPLC WITH H6
1040:   REPLACE FCLCOD WITH H7
1041:   REPLACE FCLNAM WITH H8
1042:   REPLACE MBACOD WITH H9
1043:   REPLACE MBANAM WITH H10
1044:   REPLACE SIGNAT WITH H11
1045:   REPLACE ACCLNO WITH ENNP
1046:   REPLACE ICRHEDK WITH 4
1047:   REPLACE PILDAT WITH H2
1048:   REPLACE AUTHOF WITH "*"
1049:
1050: ENDIF
1051:
1052: IF ENN<>0
1053:   APPEND BLANK
1054:   REPLACE REPNO WITH WREPNO
1055:   REPLACE REPRM WITH H1
1056:   REPLACE REPTO WITH H2
1057:   REPLACE ENTDAT WITH H3
1058:   REPLACE USRCOD WITH H4
1059:   REPLACE USRNAM WITH H5
1060:   REPLACE USRPLC WITH H6
1061:   REPLACE FCLCOD WITH H7
1062:   REPLACE FCLNAM WITH H8
1063:   REPLACE MBACOD WITH H9
1064:   REPLACE MBANAM WITH H10
1065:   REPLACE SIGNAT WITH H11
1066:   REPLACE ACCLNO WITH ENN
1067:   REPLACE ICRHEDK WITH 6
1068:   REPLACE AUTHOF WITH "*"
1069:
1070: ENDIF
1071:
1072: ENDIF
1073: * END OF PROCEDURE CORRFL
1074: *****
1075:
1076: SELECT 1
1077: GOTO NREC
1078: REPLACE AUTHOF WITH "*"
1079: Q1 =REPNO
1080: Q2 =REPRM

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```

1081: Q3 =REPTO
1082: Q4 =ENTDAT
1083: Q5 =USRCOD
1084: Q6 =USRNAM
1085: Q7 =USRPLC
1086: Q8 =FCLCOD
1087: Q9 =FCLNAM
1088: Q10=MBACOD
1089: Q11=MBANAM
1090: Q12=SIGNAT
1091: Q13=ACCLNO
1092: Q14=ISTLNO
1093: Q15=CNTRLNO
1094: Q18=AUTHOF
1095:
1096:
1097: LOCATE FOR RNO=HD->REPNO
1098:
1099: IF CHGTYP="TR "
1100: | SELECT 1
1101: | GOTO NREC
1102: | SKIP
1103: | AA=" "
1104: | @ 20,20 SAY &W*"SELECTED IC REPORT AUTHORIZED"
1105: | @ 21,20 SAY &W*"ENTRIES OF THIS REPORT ARE 'TR' "
1106: | @ 22,20 SAY &W*"SO ICR RECORD DID NOT CREATED "+&G+" PRESS ANY KEY " GET AA
1107: | READ
1108: | LOOP
1109: | ENDIF
1110:
1111:
1112:
1113: SELECT 1
1114: APPEND BLANK
1115: REPLACE REPRM WITH Q1
1116: REPLACE REPRM WITH Q2
1117: REPLACE REPTO WITH Q3
1118: REPLACE ENTDAT WITH Q4
1119: REPLACE USRCOD WITH Q5
1120: REPLACE USRNAM WITH Q6
1121: REPLACE USRPLC WITH Q7
1122: REPLACE FCLCOD WITH Q8
1123: REPLACE FCLNAM WITH Q9
1124: REPLACE MBACOD WITH Q10
1125: REPLACE MBANAM WITH Q11
1126: REPLACE SIGNAT WITH Q12
1127: REPLACE ACCLNO WITH Q13
1128: REPLACE ISTLNO WITH Q14
1129: REPLACE CNTRLNO WITH Q15
1130: REPLACE ICRHEDK WITH 1
1131: REPLACE AUTHOF WITH Q18
1132:
1133: SELECT 2
1134: DO WHILE .NOT. EOF() .AND. RNO=HD->REPNO
1135: | Q1 =MBA
1136: | Q2 =RNO
1137: | Q3 =ENO
1138: | Q4 =CON
1139: | Q5 =CHGDAT
1140: | Q6 =CNTRYF
1141: | Q7 =CNTRYT

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1141: Q8 =CHGTYP
1142: Q9 =KMP
1143: Q10=BAINO
1144: Q11=BATIMS
1145: Q12=MAIDSC
1146: Q13=ACCOFG
1147: Q14=ACCECD
1148: Q15=ACCEWT
1149: Q16=ACCUNT
1150: Q17=ACCFIWT
1151: Q18=ACCICD
1152: Q19=MESBCD
1153: Q20=CONSICE
1154: Q21=CORRNO
1155: Q22=CORRENO
1156: Q23=ICRDTLK
-----
1157: SELECT 6
1158: APPEND BLANK
1159: REPLACE MBA WITH Q1
1160: REPLACE RNO WITH Q2
1161: REPLACE ENO WITH Q3
1162: REPLACE CON WITH Q4
1163: REPLACE CHGDAT WITH Q5
1164: REPLACE CNTRYF WITH Q6
1165: REPLACE CNTRYF WITH Q7
1166: REPLACE CHGTYP WITH Q8
1167: REPLACE KMP WITH Q9
1168: REPLACE BAINO WITH Q10
1169: REPLACE BATIMS WITH Q11
1170: REPLACE MAIDSC WITH Q12
1171: REPLACE ACCOFG WITH Q13
1172: REPLACE ACCECD WITH Q14
1173: REPLACE ACCEWT WITH Q15
1174: REPLACE ACCUNT WITH Q16
1175: REPLACE ACCFIWT WITH Q17
1176: REPLACE ACCICD WITH Q18
1177: REPLACE MESBCD WITH Q19
1178: REPLACE CONSICE WITH Q20
1179: REPLACE CORRNO WITH Q21
1180: REPLACE CORRENO WITH Q22
1181: REPLACE ICRDTLK WITH Q23
-----
1182: SELECT 2
1183: ENDDO
1184: SKIP
1185: AA= " "
1186: @ 20,20 SAY &W*"SELECTED IC REPORT AUTHORIZED ,AND ICR RECORD CREATED"
1187: @ 22,20 SAY &G*" PRESS ANY KEY " GET AA
1188: READ
1189: @ 20,20 SAY SPACE(60)
1190: @ 22,20 SAY SPACE(40)
1191: LFLG=" "
1192:
1193:
1194:
1195: ENDDO
1196: CLOSE DATABASES
1197: CLOSE PROCEDURE
1198:

```

```

1: *****
2: * BOOK INVENTORY PRINT ROUTINE *
3: *****
4: CLEAR
5:
6:
7: @ 1,10 SAY &Y+*****"
8: @ 2,10 SAY &Y+** PRINT BOOK INVENTORY * "
9: @ 3,10 SAY &Y+*****"
10: @ 7,10 SAY &Y+ MBA CODE : "
11: @ 17,11 SAY &Y+ EXIT WHEN BLANK"
12:
13: Q=" "
14: DO WHILE .T.
15: @ 7,40 GET Q
16: READ
17: IF Q=" "
18: RETURN
19: ENDIF
20:
21:
22: * SET FACILITY CODE, NAME, MBA CODE AND NAME
23:
24: SELECT 1
25: IF .NOT. FILE("A.FAC.DBF")
26: @ 20,20 SAY &R+"FACILITY DEFINITION FILE DOES NOT EXIST"
27: AA=" "
28: READ
29: @ 20,20 SAY SPACE(55)
30: CLOSE DATABASES
31: CLOSE PROCEDURE
32: RETURN
33: ENDIF
34:
35: PUBLIC ONAME,FNAME,MNAME
36:
37: USE A_FAC
38: GO TOP
39: ONAME=NAME
40: SKIP
41: FNAME=NAME
42: LOCATE FOR CODE=Q
43: IF EOF()
44: @ 20,20 SAY &R+"MBA CODE("+Q+") DOES NOT EXIST IN FACILITY FILE"
45: AA=" "
46: @ 20,69 GET AA
47: READ
48: @ 20,20 SAY SPACE(55)
49: LOOP
50: ENDIF
51: MNAME=NAME
52:
53: * SET FILE NAME
54: IF .NOT. FILE("A.MBANO.DBF")
55: @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"
56: AA=" "
57: @ 20,65 GET AA
58: READ
59: @ 20,20 SAY SPACE(55)
60: CLOSE DATABASES

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```

61:  | CLOSE PROCEDURE
62:  | RETURN
63:  | ENDIF
64:
65:  | USE A_MBANO
66:  | LOCATE FOR MBA=Q
67:  | IF .EOF()
68:  |   @ 20,20 SAY &R+"MBA CODE("+Q+") DOES NOT EXIST IN MBA FILE "
69:  |   AA=" "
70:  |   @ 20,69 GET AA
71:  |   READ
72:  |   @ 20,20 SAY SPACE(55)
73:  |   LOOP
74:  | ENDIF
75:  | NN = LTRIM(STR(RECNO()))
76:  | FNAME="A_BOOK"-NN
77:  | FNAME1="A_HEAD"-NN
78:  | EXIT
79:  | ENDDO
80:  | IF .NOT. FILE("&FNAME.DBF")
81:  |   AA=" "
82:  |   @ 20,20 SAY &R+"THERE IS NO BOOK INVENTORY FILE FOR THIS MBA " GET AA
83:  |   READ
84:  |   @ 20,20 SAY SPACE(55)
85:  |   CLOSE DATABASES
86:  |   CLOSE PROCEDURE
87:  |   RETURN
88:  | ENDIF
89:
90:  | USE &FNAM
91:  | IF .EOF()
92:  |   AA=" "
93:  |   @ 20,20 SAY &R+"THERE IS NO RECORD IN BOOK INVENTORY FILE" GET AA
94:  |   READ
95:  |   @ 20,20 SAY SPACE(55)
96:  |   CLOSE DATABASES
97:  |   RETURN
98:  | ENDIF
99:
100: | SELECT 2
101: | USE &FNAM1
102: | GO BOTTOM
103: | DO WHILE ICRHEDK <> 0
104: |   SKIP -1
105: | ENDDO
106: | WDATE = ENTDAT
107: | USE
108:
109: | SELECT 1
110: | Q=" "
111: | ?? &W
112: | @ 19,10 SAY "
113: | DO WHILE .T.
114: |   @ 19,54 GET Q
115: |   READ
116: |   IF Q<>"S" .AND. Q<>"P"
117: |     Q=" "
118: |     LOOP
119: |   ENDIF
120: | EXIT

```

SCREEN OR PRINTER ? (S/P)"



```

121: ENDDO
122:
123: IF Q="S"
124:   DO BOOKORT
125:   USE
126:   RETURN
127: ENDIF
128:
129: *****
130: * BOOK INVENTORY PRINT OUT ROUTINE ( BIPRT.PRG ) *
131: *****
132:
133: *COUNT TO CNT
134: CNT=0
135: GOTO 1
136: DO WHILE .NOT. EOF()
137:   IF BDATE<>0 .AND. BEWEIT>0.
138:     CNT=CNT+1
139:   ENDIF
140:   SKIP
141: ENDDO
142:
143: GOTO TOP
144: DO WHILE BDATE=0 .OR. BEWEIT<=0.
145:   SKIP
146: ENDDO
147:
148: SET DEVICE TO PRINT
149:
150: @ 5,30 SAY "          BOOK INVENTORY LISTING  "
151: @ 7,11 SAY "-----"
152: @ 7,61 SAY "-----"
153: @ 8,11 SAY "  ORGANIZATION"
154: @ 8,61 SAY "  DATE "
155: @ 8,75 SAY WDATE PICTURE '99/99/99'
156: @ 8,111 SAY " "
157: @ 9,11 SAY "  NAME"
158: @ 9, 27 SAY ONAME
159: @ 9, 61 SAY " "
160: @ 9,111 SAY " "
161: @ 10,11 SAY "  ADDRESS"
162: @ 10, 61 SAY " "
163: @ 10,111 SAY "  FACILITY"
164: @ 11, 11 SAY "  FNAME"
165: @ 11, 27 SAY FNAME
166: @ 11, 61 SAY " "
167: @ 11,111 SAY "  MATERIAL BALANCE AREA"
168: @ 12, 11 SAY "  MNAME"
169: @ 12, 39 SAY MNAME
170: @ 12, 61 SAY " "
171: @ 12,111 SAY " "
172: @ 13,11 SAY "-----"
173: @ 13,61 SAY "-----"
174: @ 14, 11 SAY "  ORGANIZATION|FACILITY| MBA |DATE OF BILL|REPORT NO.|"
175: @ 14, 63 SAY "  NUMBER OF ENTRY|"
176: @ 14,108 SAY "-----"
177: @ 15, 11 SAY "-----"
178: @ 15, 63 SAY "-----"
179: @ 16, 11 SAY " "
180: @ 16, 16 SAY BORG PICTURE 'XXXX'

```

```

181: @ 16, 24 SAY "!"
182: @ 16, 26 SAY BFCL PICTURE 'XXXX'
183: @ 16, 33 SAY "!"
184: @ 16, 34 SAY BMBA PICTURE 'XXXX'
185: @ 16, 39 SAY "!"
186: @ 16, 41 SAY WDATE PICTURE '99/99/99'
187: @ 16, 51 SAY "!"
188: @ 16, 62 SAY "!"
189: @ 16, 69 SAY CNT PICTURE '99'
190: @ 16, 78 SAY "!"
191: @ 16,108 SAY "!"
192: @ 16,111 SAY "!"
193: @ 17,11 SAY "-----"
194: @ 17,61 SAY "-----"
195: @ 18,11 SAY " 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |"
196: @ 18,62 SAY "10 | 11 |12 | 13 |14 |15 |16 | 17 |18 |19 |"
197: @ 19,11 SAY "-----"
198: @ 19,62 SAY "-----"
199:
200: STORE BMBA TO MBA
201: STORE BORG TO ORG
202: STORE BFCL TO FCL
203: STORE 1 TO ENO
204: DO WHILE .NOT. EOF()
205:   STORE 19 TO L
206:   DO WHILE L<41
207:     IF BDATE=0 .OR. BEWEIT<=0,
208:       SKUP
209:     IF EOF() .OR. L>=41
210:       STORE L+1 TO L
211:       @ L,11 SAY "-----"
212:       @ L,62 SAY "-----"
213:       STORE L+1 TO M
214:       STORE 50 TO L
215:       EXIT
216:     ENDIF
217:     LOOP
218:   ENDIF
219:
220: STORE L+1 TO L
221: @ L, 11 SAY "!"
222: @ L, 12 SAY MBA PICTURE 'XXXX'
223: @ L, 17 SAY "!"
224: @ L, 23 SAY "!"
225: @ L, 24 SAY ENO PICTURE '99'
226: @ L, 27 SAY "!"
227: @ L, 30 SAY "!"
228: @ L, 31 SAY BKMP PICTURE 'X'
229: @ L, 33 SAY "!"
230: @ L, 34 SAY BBATCH PICTURE 'XXXXXXXXX'
231: @ L, 43 SAY "!"
232: @ L, 44 SAY BITM PICTURE '99999'
233: @ L, 49 SAY "!"
234: @ L, 50 SAY BMDESC PICTURE 'XXXX'
235: @ L, 55 SAY "!"
236: @ L, 56 SAY BORG PICTURE 'XXXX'
237: @ L, 61 SAY "!"
238: @ L, 62 SAY BELM PICTURE 'X'
239: @ L, 64 SAY "!"
240:

```

```

241: @ L, 65 SAY BEWEIT PICTURE '99999999'
242: @ L, 75 SAY "!"
243: @ L, 76 SAY BUNIT PICTURE 'X'
244: @ L, 78 SAY "!"
245: @ L, 80 SAY BIWEIT PICTURE '99999999'
246: @ L, 89 SAY "!"
247: @ L, 90 SAY RISO PICTURE 'X'
248: @ L, 92 SAY "!"
249: @ L, 93 SAY BBAS PICTURE 'X'
250: @ L, 95 SAY "!"
251: @ L, 98 SAY "!"
252: @ L, 104 SAY "!"
253: @ L, 108 SAY "!"
254: @ L, 111 SAY "!"
255:
256: SKIP
257:
258: STORE ENO+1 TO ENO
259: IF EOF() .OR. L>=41
260: | STORE L+1 TO L
261: | @ L, 11 SAY "-----+-----+"
262: | @ L, 62 SAY "-----+-----+"
263: | STORE L+1 TO M
264: | STORE 50 TO L
265: |
266: | ENDIF
267:
268: ENDDO
269: STORE M TO L
270: STORE L+1 TO L
271: @ L, 3 SAY " 1: MBA"
272: @ L, 33 SAY " 2: REPORT NO."
273: @ L, 63 SAY " 3: ENTRY NO."
274: @ L, 93 SAY " 4: CONTINUATION"
275: STORE L+1 TO L
276: @ L, 3 SAY " 5: KMP CODE"
277: @ L, 33 SAY " 6: NAME/NO. OF BATCH"
278: @ L, 63 SAY " 7: NUMBER OF ITEMS IN BATCH"
279: @ L, 93 SAY " 8: MATERIAL DESCRIPTION"
280: STORE L+1 TO L
281: @ L, 3 SAY " 9: ORIGIN OF MATERIAL"
282: @ L, 33 SAY "10: ELEMENT CODE"
283: @ L, 63 SAY "11: WEIGHT OF ELEMENT"
284: @ L, 93 SAY "12: UNIT OF WEIGHT"
285: STORE L+1 TO L
286: @ L, 3 SAY "13: WEIGHT OF FISSILE ISOTOPE"
287: @ L, 33 SAY "14: ISOTOPE CODE"
288: @ L, 63 SAY "15: MEASUREMENT BASIS"
289: @ L, 93 SAY "16: CONSCISE NOTE"
290: STORE L+1 TO L
291: @ L, 3 SAY "17: REPORT NO.(CORRECTION TO)"
292: @ L, 33 SAY "18: ENTRY NO(CORRECTION TO)"
293: @ L, 63 SAY "19: TYPE"
294: IF EOF()
295: | EJECT
296: | LOOP
297: |
298: ENDIF
299: EJECT
300: @ 5,30 SAY " BOOK INVENTORY LISTING "
@ 7,11 SAY "-----+-----+"
@ 7,61 SAY "-----+-----+"

```

```

301: @ 8,11 SAY " | ORGANIZATION"
302: @ 8,61 SAY " | DATE"
303: @ 8,75 SAY BDATE PICTURE '99/99/99'
304: @ 8,111 SAY " | "
305: @ 9,11 SAY " | NAME"
306: @ 9, 27 SAY ORG
307: @ 9, 61 SAY " | "
308: @ 9,111 SAY " | "
309: @ 10,11 SAY " | ADDRESS"
310: @ 10, 61 SAY " | "
311: @ 10,111 SAY " | "
312: @ 11, 11 SAY " | FACILITY"
313: @ 11, 27 SAY FCL
314: @ 11, 61 SAY " | "
315: @ 11,111 SAY " | "
316: @ 12, 11 SAY " | MATERIAL BALANCE AREA"
317: @ 12, 39 SAY MBA
318: @ 12, 61 SAY " | "
319: @ 12,111 SAY " | "
320: @ 13,11 SAY " | "
321: @ 13,61 SAY " | "
322: @ 14, 11 SAY " | ORGANIZATION | FACILITY | MBA | DATE OF P.I.L. | REPORT NO. | "
323: @ 14, 63 SAY " | NUMBER OF ENTRY | "
324: @ 14,108 SAY " | "
325: @ 15, 11 SAY " | "
326: @ 15, 63 SAY " | "
327: @ 16, 11 SAY " | "
328: @ 16, 16 SAY ORG PICTURE 'XXXX'
329: @ 16, 24 SAY " | "
330: @ 16, 26 SAY FCL PICTURE 'XXXX'
331: @ 16, 33 SAY " | "
332: @ 16, 34 SAY MBA PICTURE 'XXXX'
333: @ 16, 39 SAY " | "
334: @ 16, 41 SAY BDATE PICTURE '99/99/99'
335: @ 16, 51 SAY " | "
336: @ 16, 62 SAY " | "
337: @ 16, 69 SAY CNT PICTURE '99'
338: @ 16, 78 SAY " | "
339: @ 16,108 SAY " | "
340: @ 16,111 SAY " | "
341: @ 17, 11 SAY " | "
342: @ 17,61 SAY " | "
343: @ 18,11 SAY " | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | "
344: @ 18,62 SAY " | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | "
345: @ 19,11 SAY " | "
346: @ 19,62 SAY " | "
347: ENDDO
348: STORE 0 TO D
349: DO WHILE D<500
350: | STORE D+1 TO D
351: ENDDO
352: SET DEVICE TO SCREEN
353: RETURN

```

```

1: PROCEDURE REDPIL
2: *****
3: * PIL ENTRY ERROR CHECK *
4: *
5: *****
6:
7: STORE 0 TO D3,D7,D9,DC,DD
8: STORE " " TO D4,DS
9: STORE " " TO D1,D6,D8,DA,DB
10: STORE " " TO D2
11: ECNT = 1
12: *
13: * READ ENTRY *
14: *
15: *****
16: SELECT 3
17: DO WHILE ECNT<=Q8
18:
19: CLEAR
20:
21: ?? &Y
22: @ 1,2 SAY "***** PIL REPORT ENTRY INFORMATION [ REPORT No.= "
23: @ 1,58 SAY WREPNO PICTURE '999'
24: @ 1,62 SAY " j *****"
25: @ 3,1 SAY "ENT KMP NAME/ NO.OF MATE- ORIGIN ELE- WET. UNIT WET. ISO MEASU- CORR-TO"
26: @ 4,1 SAY "-RY NO.OF ITEMS RIAL OF OF RE RE REP ENT"
27: @ 5,1 SAY "NO. CODE BATCH IN DESC MATE- ELE- WET. F.I. CODE BASIS NO. NO."
28: @ 6,1 SAY " BATCH PTION RIAL CODE MENT"
29: @ 7,1 SAY "-----"
30: @ 22,2 SAY "** END OF DATA INPUT WHEN '-1' TO ENTRY NO. : TO ERROR CHECK WHEN '0'"
31: @ 23,2 SAY "** RE-INPUT WHEN THE PREVIOUS ENTRY NO. TO ENTRY NO."
32:
33: STORE 9 TO L
34: EF=ECNT
35: DO WHILE L<21 .AND. ECNT<=Q8+1
36: IF ECNT<>1
37: GOTO BOTTOM
38: D1=PILD05
39: D2=PILD06
40: D3=PILD07
41: D4=PILD08
42: D5=PILD09
43: D6=PILD10
44: D7=0.0
45: D8=PILD12
46: D9=0.0
47: DA=PILD14
48: DB=PILD15
49: DC=PILD17
50: DE=PILD18
51: ENDIF
52: L1=L
53: ECNT1=ECNT
54: IF ECNT1>Q8
55: ECNT1=0
56: ENDIF
57: @ L,2 GET ECNT1 PICTURE '99'
58: READ
59: IF ECNT1<0 .OR. ECNT1=0
60: EXIT

```

```

61: ENDIF
62: IF ECNT<ECNT1
63: ?? &R
64: @ L,8 SAY "*ERROR- ENTRY NO. DOES NOT EXIST."
65: RES=" "
66: @ L,45 GET RES
67: READ
68: @ L,8 SAY " "
69: LOOP
70: ENDIF
71: IF ECNT>ECNT1
72: LOCATE FOR PILD03=ECNT1 .AND. PILD02=WREPNO
73: L1=L-ECNT+ECNT1
74: D1=PILD05
75: D2=PILD06
76: D3=PILD07
77: D4=PILD08
78: D5=PILD09
79: D6=PILD10
80: D7=PILD11
81: D8=PILD12
82: D9=PILD13
83: DA=PILD14
84: DB=PILD15
85: DC=PILD17
86: DD=PILD18
87: ENDIF
88:
89: @ L1, 7 GET D1 PICTURE 'X'
90: @ L1,10 GET D2 PICTURE 'XXXXXXXX'
91: @ L1,19 GET D3 PICTURE '9999'
92: @ L1,24 GET D4 PICTURE 'XXXX'
93: @ L1,30 GET D5 PICTURE 'XXXX'
94: @ L1,37 GET D6 PICTURE 'X'
95: @ L1,40 GET D7 PICTURE '99999999.'
96: @ L1,50 GET D8 PICTURE 'X'
97: @ L1,53 GET D9 PICTURE '99999999.'
98: @ L1,63 GET DA PICTURE 'X'
99: @ L1,67 GET DB PICTURE 'X'
100: @ L1,72 GET DC PICTURE '9999'
101: @ L1,78 GET DD PICTURE '99'
102: READ
103:
104: IF ECNT1=ECNT
105: ! APPEND BLANK
106: ENDIF
107: REPLACE PILD05 WITH D1,PILD06 WITH D2,PILD07 WITH D3,PILD08 WITH D4,;
108: PILD09 WITH D5,PILD10 WITH D6,PILD11 WITH D7
109: REPLACE PILD12 WITH D8,PILD13 WITH D9,PILD14 WITH DA,PILD15 WITH DB,;
110: PILD17 WITH DC,PILD18 WITH DD
111: REPLACE PILD02 WITH WREPNO,PILD03 WITH ECNT1,PILD19 WITH 5
112: REPLACE PILD01 WITH Q3
113:
114:
115: IF ECNT1<>ECNT
116: ! LOOP
117: ENDIF
118: ECNT = ECNT + 1
119: L = L + 1
120: ENDDO

```

```

121: * *****
122: * * PILD ENTRY CHECK *
123: * *****
124: * *****
125: EE=ECNT-1
126: IF EE<=0
127: | EXIT
128: ENDDIF
129: NNN=EF
130:
131: CLEAR
132: ?? &Y
133: @ 10,25 SAY "*****"
134: @ 11,25 SAY " * ERROR CHECK * "
135: @ 12,25 SAY "*****"
136: DO WHILE NNN<=EE
137: | LOCATE FOR PILD02=WREPNO .AND. PILD03=NNN
138: |
139: | D1=PILD05
140: | D2=PILD06
141: | D3=PILD07
142: | D4=PILD08
143: | D5=PILD09
144: | D6=PILD10
145: | D7=PILD11
146: | D8=PILD12
147: | D9=PILD13
148: | DA=PILD14
149: | DB=PILD15
150: | DC=PILD17
151: | DD=PILD18
152: |
153: | DO CHKPIL WITH NNN
154: |
155: | NNN=NNN+1
156: | ENDDO
157: * *****
158: * * END *
159: * *****
160: * IF ECNT1<0
161: | IF ECNT-1<Q8
162: | ANS=0
163: | DIF=Q8-ECNT+1
164: | CLEAR
165: | ?? &R
166: | @ 5,2 SAY "E035- NUMBER OF ENTRIES IN HEADER IS .GT. NUMBER OF READ ENTRIES"
167: | @ 6,9 SAY "DIFFERENCE IS " + STR(DIF,2)
168: | ?? &W
169: | @ 7,9 SAY "READ MORE ENTRIES ? (Y/N)"
170: | ANS=" "
171: | DO WHILE .T.
172: | | @ 7,38 GET ANS
173: | | READ
174: | | IF ANS<>"Y" .AND. ANS<>"N"
175: | | | LOOP
176: | | | ENDDIF
177: | | | EXIT
178: | | ENDDO
179: | | IF ANS="Y"
180: | | | LOOP

```

```

181: | | | | | ELSE
182: | | | | | EXIT
183: | | | | | ENDIF
184: | | | | | ENDIF
185: | | | | | ENDIF
186: | | | | | LOOP
187: | | | | |
188: ENDDO
189: * CHANGE THE NUMBER OF ENTRIES IN HEADER FILE
190: Q8= ECNT-1
191: RETURN
192: RETURN
193:
194: *****
195:
196: PROCEDURE CHKPII
197: *****
198: * PII ENTRY CHECK *
199: *****
200: PARAMETERS N
201:
202: DO WHILE .T.
203: NOREC=RECNO()
204:
205: ERLG=0
206: ER020=0
207: ER022=0
208: ER026=0
209: ER042=0
210: ER023=0
211: ER024=0
212: ER025=0
213: ER029=0
214: ER032=0
215:
216:
217:
218: SELECT 5
219: LOCATE FOR MBACODE=HH->MBACOD .AND. DI=KMP
220: IF EOF()
221: ERLG=1
222: ER020=1
223: ENDIF
224: SELECT 3
225:
226: IF D6<>"D" .AND. D6<>"N" .AND. D6<>"E"
227: IF D6<>"U" .AND. D6<>"P" .AND. D6<>"T"
228: ERLG=1
229: ER022=1
230: ENDIF
231: ENDIF
232:
233: IF DA<>"G" .AND. DA<>"J" .AND. DA<>"K" .AND. DA<>" "
234: ERLG=1
235: ER026=1
236: ENDIF
237: IF D8<>"K" .AND. D8<>"G"
238: ERLG=1
239: ER042=1
240: ENDIF

```



```

241:
242: IF D6="P" .OR. D6="E"
243: | IF D8<>"G"
244: | | ERLG=1
245: | | ERO23=1
246: | | ENDIF
247: | ENDIF
248:
249: IF D6="D" .OR. D6="T" .OR. D6="N"
250: | IF D9<>.0
251: | | ERLG=1
252: | | ERO24=1
253: | | ENDIF
254: | ENDIF
255:
256: IF D7<D9
257: | ERLG=0
258: | ERO25=1
259: | ENDIF
260:
261:
262:
263: IF DC<>.0
264: | LOCATE FOR PILD02=DC
265: | IF EOF()
266: | | ERLG=1
267: | | ERO29=1
268: | | ENDIF
269: | ENDIF
270:
271: M1=SUBSTR(D4,1,1)
272: M2=SUBSTR(D4,2,1)
273: M3=SUBSTR(D4,3,1)
274: M4=SUBSTR(D4,4,1)
275: IF M1<>"B" .AND. M1<>"D" .AND. M1<>"F" .AND. M1<>"G" .AND. M1<>"H"
276: | IF M1<>"J" .AND. M1<>"K" .AND. M1<>"O" .AND. M1<>"N" .AND. M1<>"R"
277: | | ERLG=1
278: | | ERO32=1
279: | | ENDIF
280: | ENDIF
281: ENDIF
282: IF M2<>"D" .AND. M2<>"E" .AND. M2<>"G" .AND. M2<>"J" .AND. M2<>"K"
283: | IF M2<>"Q" .AND. M2<>"T" .AND. M2<>"U" .AND. M2<>"R" .AND. M2<>"V"
284: | | IF M2<>"W" .AND. M2<>"X" .AND. M2<>"Y" .AND. M2<>"Z" .AND. M2<>"S"
285: | | | IF M2<>"1" .AND. M2<>"2" .AND. M2<>"3" .AND. M2<>"4" .AND. M2<>"5"
286: | | | | IF M2<>"6" .AND. M2<>"7" .AND. M2<>"0"
287: | | | | | ERLG=1
288: | | | | | ERO32=1
289: | | | | | ENDIF
290: | | | | ENDIF
291: | | | ENDIF
292: | | ENDIF
293: ENDIF
294: IF M3<>"1" .AND. M3<>"2" .AND. M3<>"3" .AND. M3<>"4" .AND. M3<>"5"
295: | IF M3<>"6" .AND. M3<>"7" .AND. M3<>"8" .AND. M3<>"A" .AND. M3<>"E"
296: | | IF M3<>"G" .AND. M3<>"H" .AND. M3<>"J" .AND. M3<>"K" .AND. M3<>"L"
297: | | | IF M3<>"M" .AND. M3<>"N" .AND. M3<>"Q" .AND. M3<>"R" .AND. M3<>"U"
298: | | | | IF M3<>"V" .AND. M3<>"0"
299: | | | | | ERLG=1
300: | | | | | ERO32=1

```

```

301:          |          |          |          |          |          |          |          |          |          |
302:          |          |          |          |          |          |          |          |          |          |
303:          |          |          |          |          |          |          |          |          |          |
304:          |          |          |          |          |          |          |          |          |          |
305:          |          |          |          |          |          |          |          |          |          |
306:          |          |          |          |          |          |          |          |          |          |
307:          |          |          |          |          |          |          |          |          |          |
308:          |          |          |          |          |          |          |          |          |          |
309:          |          |          |          |          |          |          |          |          |          |
310:          |          |          |          |          |          |          |          |          |          |
311:          |          |          |          |          |          |          |          |          |          |
312:          |          |          |          |          |          |          |          |          |          |
313:          |          |          |          |          |          |          |          |          |          |
314:          |          |          |          |          |          |          |          |          |          |
315:          |          |          |          |          |          |          |          |          |          |
316:          |          |          |          |          |          |          |          |          |          |
317:          |          |          |          |          |          |          |          |          |          |
318:          |          |          |          |          |          |          |          |          |          |
319:          |          |          |          |          |          |          |          |          |          |
320:          |          |          |          |          |          |          |          |          |          |
321:          |          |          |          |          |          |          |          |          |          |
322:          |          |          |          |          |          |          |          |          |          |
323:          |          |          |          |          |          |          |          |          |          |
324:          |          |          |          |          |          |          |          |          |          |
325:          |          |          |          |          |          |          |          |          |          |
326:          |          |          |          |          |          |          |          |          |          |
327:          |          |          |          |          |          |          |          |          |          |
328:          |          |          |          |          |          |          |          |          |          |
329:          |          |          |          |          |          |          |          |          |          |
330:          |          |          |          |          |          |          |          |          |          |
331:          |          |          |          |          |          |          |          |          |          |
332:          |          |          |          |          |          |          |          |          |          |
333:          |          |          |          |          |          |          |          |          |          |
334:          |          |          |          |          |          |          |          |          |          |
335:          |          |          |          |          |          |          |          |          |          |
336:          |          |          |          |          |          |          |          |          |          |
337:          |          |          |          |          |          |          |          |          |          |
338:          |          |          |          |          |          |          |          |          |          |
339:          |          |          |          |          |          |          |          |          |          |
340:          |          |          |          |          |          |          |          |          |          |
341:          |          |          |          |          |          |          |          |          |          |
342:          |          |          |          |          |          |          |          |          |          |
343:          |          |          |          |          |          |          |          |          |          |
344:          |          |          |          |          |          |          |          |          |          |
345:          |          |          |          |          |          |          |          |          |          |
346:          |          |          |          |          |          |          |          |          |          |
347:          |          |          |          |          |          |          |          |          |          |
348:          |          |          |          |          |          |          |          |          |          |
349:          |          |          |          |          |          |          |          |          |          |
350:          |          |          |          |          |          |          |          |          |          |
351:          |          |          |          |          |          |          |          |          |          |
352:          |          |          |          |          |          |          |          |          |          |
353:          |          |          |          |          |          |          |          |          |          |
354:          |          |          |          |          |          |          |          |          |          |
355:          |          |          |          |          |          |          |          |          |          |
356:          |          |          |          |          |          |          |          |          |          |
357:          |          |          |          |          |          |          |          |          |          |
358:          |          |          |          |          |          |          |          |          |          |
359:          |          |          |          |          |          |          |          |          |          |
360:          |          |          |          |          |          |          |          |          |          |

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361: @ L,2 SAY "ERO26- ISOTOPE CODE MUST BE 'G', 'J', OR 'K'"
362: ENDIF
363: IF ERO42=1
364: L=L+1
365: ?? &R
366: @ L,2 SAY "ERO42- UNIT IS NOT 'K' OR 'G'"
367: ENDIF
368: IF ERO23=1
369: L=L+1
370: ?? &R
371: @ L,2 SAY "ERO23- UNIT MUST BE 'G' WHEN ELEMENT CODE IS 'E' OR 'P'"
372: ENDIF
373: IF ERO24=1
374: L=L+1
375: ?? &R
376: @ L,2 SAY "ERO24- WEIGHT OF ISOTOPE MUST BE 0. WHEN ELEMENT CODE IS 'D', 'T', OR 'N'"
377: ENDIF
378: IF ERO25=1
379: L=L+1
380: ?? &R
381: @ L,2 SAY "ERO25- WEIGHT OF ELEMENT MUST BE GREATER THAN THAT OF ISOTOPE"
382: ENDIF
383: IF ERO29=1
384: L=L+1
385: ?? &R
386: @ L,2 SAY "ERO29- REPORT NO. IN CORRECTION TO IS NOT IN FILE."
387: ENDIF
388: IF ERO32=1
389: L=L+1
390: ?? &R
391: @ L,2 SAY "ERO32- MATERIAL DESCRIPTION CODES DO NOT IONCLUDE THIS CODE."
392: ENDIF
393:
394: L=L+1
395: RES=" "
396: ?? &G
397: @ L,15 SAY "PRESS ANY KEY"
398: @ L,32 GET RES
399: READ
400:
401: ?? &Y
402: @ 23,2 SAY "PENDING WHEN '-1' TO ENTRY NO."
403: NN=N
404: @ 8,2 GET NN PICTURE '99'
405: READ
406: IF NN<0 .OR. NN<>N
407: LOCATE FOR PILD02=WREPNO .AND. PILD03=N
408: REPLACE PILD20 WITH "*"
409: RETURN
410: ENDIF
411:
412: L1=8
413: @ L1, 7 GET D1 PICTURE 'X'
414: @ L1,10 GET D2 PICTURE 'XXXXXXXX'
415: @ L1,19 GET D3 PICTURE '9999'
416: @ L1,24 GET D4 PICTURE 'XXXX'
417: @ L1,30 GET D5 PICTURE 'XXXX'
418: @ L1,37 GET D6 PICTURE 'X'
419: @ L1,40 GET D7 PICTURE '9999999.'
420: @ L1,50 GET D8 PICTURE 'X'

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421: @ L1,53 GET D9 PICTURE '9999999.'
422: @ L1,63 GET DA PICTURE 'X'
423: @ L1,67 GET DB PICTURE 'X'
424: @ L1,72 GET DC PICTURE '9999'
425: @ L1,78 GET DD PICTURE '99'
426: READ
427:
428: SELECT 3
429: LOCATE FOR PILD02=WREPNO .AND. PILD03=N
430: REPLACE PILD05 WITH D1,PILD06 WITH D2,PILD07 WITH D3,PILD08 WITH D4,;
431: PILD09 WITH D5,PILD10 WITH D6,PILD11 WITH D7
432: REPLACE PILD12 WITH D8,PILD13 WITH D9,PILD14 WITH DA,PILD15 WITH DB,;
433: PILD17 WITH DC,PILD18 WITH DD
434:
435: LOCATE FOR PILD02=WREPNO .AND. PILD03=N
436: ENDDO
437:
438: *****
439: PROCEDURE CORPIL
440: *****
441: * CORRECT THE ENTRIES OF PIL FILE *
442: *****
443: *****
444:
445: DO WHILE .T.
446: *
447: *LIST OF IC REPORT
448: CLEAR
449: ?? &Y
450: @ 1,2 SAY "THE LIST OF THE PIL ENTRIES"
451: TIM=0
452: DO WHILE TIM<50
453: | TIM=TIM+1
454: ENDDO
455: LOCATE FOR REPNO=WREPNO
456: QG=REPRM
457:
458: * HEADER INFORMATION
459:
460: CLEAR
461: ?? &Y
462: @ 2,5 SAY "*****PIL REPORT HEADER INFORMATION*****"
463: @ 3,5 SAY "* PIL REPORT HEADER INFORMATION *****"
464: @ 4,5 SAY "*****"
465: @ 6,5 SAY "FACILITY CODE :"+FCLCOD
466: @ 6,26 SAY "|NAME :"+FCLNAM
467: @ 7,5 SAY "MBA CODE :"+MBACOD
468: @ 7,26 SAY "|NAME :"+MBANAM
469: @ 8,5 SAY "REPORT No. :"+STR(WREPNO,4)
470: @ 9,5 SAY "ENTRY DATE :"+STR(ENTDAT,6)
471: @ 10,5 SAY "PIL DATE :"+STR(REPRM,6)
472: @ 11,5 SAY "NUMBER OF ENTRY :"+STR(ACCLNO,2)
473: @ 12,5 SAY "SIGNATURE :"+SIGNAT
474:
475: ANS=" "
476: ?? &G
477: @ 15,15 SAY "PRESS ANY KEY"
478: @ 15,32 GET ANS
479: READ
480: ANS="Y"

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481: * PIL-REPORT LISTING
482: NOENTR=ACCLNO
483:
484:
485: SELECT 3
486:
487: CNTETR=1
488: DO WHILE CNTETR<=NOENTR
489:   CLEAR
490:
491:   ?? &Y
492:   @ 1,2 SAY "***** PIL REPORT ENTRY INFORMATION [ REPORT No. = "
493:   @ 1,58 SAY WREPNO PICTURE '999'
494:   @ 1,62 SAY " ] *****"
495:   @ 3,1 SAY "ENT KMP NAME/ NO.OF MATE- ORIGIN ELE- WET. UNIT WET. ISO MEASU- CORR-TO"
496:   @ 4,1 SAY "-RY NO.OF ITEMS RIAL OF MENT OF OF RE RE REP ENT"
497:   @ 5,1 SAY "NO. CODE BATCH IN DESC- MATE- ELE- WET. F.I. CODE BASIS NO. NO."
498:   @ 6,1 SAY " BATCH PTION RIAL CODE MENT"
499:   @ 7,1 SAY " "
500:   L=9
501:   ?? &W
502:   DO WHILE L<=20 .AND. CNTETR<=NOENTR
503:     LOCATE FOR PILD02=WREPNO .AND. PILD03=CNTETR
504:     @ L,2 SAY CNTETR PICTURE '99'
505:     @ L,7 SAY PILD05 PICTURE 'X'
506:     @ L,10 SAY PILD06 PICTURE 'XXXXXXXX'
507:     @ L,19 SAY PILD07 PICTURE '9999'
508:     @ L,24 SAY PILD08 PICTURE 'XXXX'
509:     @ L,30 SAY PILD09 PICTURE 'XXXX'
510:     @ L,37 SAY PILD10 PICTURE 'X'
511:     @ L,40 SAY PILD11 PICTURE '99999999.'
512:     @ L,50 SAY PILD12 PICTURE 'X'
513:     @ L,53 SAY PILD13 PICTURE '99999999.'
514:     @ L,63 SAY PILD14 PICTURE 'X'
515:     @ L,67 SAY PILD15 PICTURE 'X'
516:     @ L,72 SAY PILD17 PICTURE '9999'
517:     @ L,78 SAY PILD18 PICTURE '99'
518:
519:     L=L+1
520:     CNTETR=CNTETR+1
521:   ENDDO
522:   ANS=" "
523:   ?? &G
524:   @ 23,15 SAY "PRESS ANY KEY"
525:   @ 23,32 GET ANS
526:   READ
527:   ENDDO
528:
529:   CLEAR
530:
531:   *CORRECT PIL ENTRY
532:
533:   DO WHILE .T.
534:     ANS=" "
535:     ?? &W
536:     @ 5,5 SAY "CORRECT ANY ENTRIES ? (Y/N)"
537:     @ 5,36 GET ANS
538:     READ
539:     IF ANS<>"Y" .AND. ANS<>"N"
540:       ! LOOP

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541: ENDIF
542: EXIT
543: ENDDO
544:
545: IF ANS="N"
546: RETURN
547: ENDIF
548:
549: CORNO=0
550: ?? &W
551: @ 6,5 SAY "NUMBER OF ENTRIES ?"
552: @ 6,28 GET CORNO PICTURE '99'
553: READ
554: TIM=0
555: DO WHILE TIM<20
556: TIM=TIM+1
557: ENDDO
558:
559: C1=1
560: DO WHILE C1<=CORNO
561: CLEAR
562:
563: ?? &Y
564: @ 1,10 SAY "*** "STR(C1,2)+"-TH ENTRY TO CORRECT ***"
565:
566: @ 3,1 SAY "ENT KMP NAME/ NO.OF MATE- ORIGIN ELE- WET. UNIT WET. ISO MEASU- CORR-TO"
567: @ 4,1 SAY "-RY NO.OF ITEMS RIAL OF MENT OF OF RE REP ENT"
568: @ 5,1 SAY "NO. CODE BATCH IN DESC- MATE- ELE- WET. F.I. CODE BASIS NO. NO."
569: @ 6,1 SAY " BATCH PTION RIAL CODE MENT"
570: @ 7,1 SAY "-----"
571: @ 22,2 SAY "* END OF DATA INPUT WHEN '-1' TO ENTRY NO. : TO ERROR CHECK WHEN '0'"
572: @ 23,2 SAY "** RE-INPUT WHEN THE PREVIOUS ENTRY NO. TO ENTRY NO."
573: L=9
574: CNTETR=0
575: DO WHILE .T.
576: @ L,2 GET CNTETR PICTURE '99'
577: READ
578: IF CNTETR=0
579: EXIT
580: ENDIF
581: IF CNTETR<0
582: RETURN
583: ENDIF
584: CNTETRD=CNTETR
585: LOCATE FOR PILD02=WREPNO .AND. PILD03=CNTETRD
586:
587: D1=PILD05
588: D2=PILD06
589: D3=PILD07
590: D4=PILD08
591: D5=PILD09
592: D6=PILD10
593: D7=PILD11
594: D8=PILD12
595: D9=PILD13
596: DA=PILD14
597: DB=PILD15
598: DC=PILD17
599: DD=PILD18
600:

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601: @ L, 7 GET D1 PICTURE 'X'
602: @ L,10 GET D2 PICTURE 'XXXXXXXX'
603: @ L,19 GET D3 PICTURE '9999'
604: @ L,24 GET D4 PICTURE 'XXXX'
605: @ L,30 GET D5 PICTURE 'XXXX'
606: @ L,37 GET D6 PICTURE 'X'
607: @ L,40 GET D7 PICTURE '99999999'
608: @ L,50 GET D8 PICTURE 'X'
609: @ L,53 GET D9 PICTURE '99999999'
610: @ L,63 GET DA PICTURE 'X'
611: @ L,67 GET DB PICTURE 'X'
612: @ L,72 GET DC PICTURE '9999'
613: @ L,78 GET DD PICTURE '99'
614: READ
615: ENDDO
616:
617: ?? &Y
618: @ 12,25 SAY "*****"
619: @ 13,25 SAY " * ERROR CHECK * "
620: @ 14,25 SAY "*****"
621: DO CHKPII WITH CNTETRD
622:
623:
624: LOCATE FOR PILD02=WREPNO .AND. PILD03=CNTETRD
625: REPLACE PILD05 WITH D1,PILD06 WITH D2,PILD07 WITH D3,PILD08 WITH D4,;
626: PILD09 WITH D5,PILD10 WITH D6,PILD11 WITH D7
627: REPLACE PILD12 WITH D8,PILD13 WITH D9,PILD14 WITH DA,PILD15 WITH DB,;
628: PILD17 WITH DC,PILD18 WITH DD
629:
630: C1=C1+1
631: IF PILD20='*'
632: | REPLACE PILD20 WITH ' '
633: | ENDIF
634:
635: ENDDO
636:
637: SELECT 1
638:
639: ENDDO
640:
641:
642: *****
643:
644: PROCEDURE PILFL
645: *****
646: * CREATE PIL FILE (1986/10/27) *
647: *****
648:
649: SELECT 1
650: LOCATE FOR ICRHEDK=4
651: IF EOF()
652: | NOENT=0
653: ENDIF
654:
655: *****
656: IF .NOT. EOF()
657: | SELECT 3
658: LOCATE FOR PILD17=0
659: DO WHILE .NOT. EOF()
660: | WREPNOF=PILD02

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661: | CONTINUE
662: | ENDDO
663: |
664: | LOCATE FOR PILD02=WREPNO
665: | DO WHILE .NOT. EOF() .AND. PILD02=WREPNO
666: |   PRCNO=RECNO()
667: |   E1=PILD01
668: |   E2=PILD02
669: |   E3=PILD03
670: |   E4=PILD04
671: |   D1=PILD05
672: |   D2=PILD06
673: |   D3=PILD07
674: |   D4=PILD08
675: |   D5=PILD09
676: |   D6=PILD10
677: |   D7=PILD11
678: |   D8=PILD12
679: |   D9=PILD13
680: |   DA=PILD14
681: |   DB=PILD15
682: |   DC=PILD17
683: |   DD=PILD18
684: |
685: | LOCATE FOR PILD17=WREPNO .AND. PILD18=E3
686: | IF .NOT. EOF()
687: |   E4=PILD04
688: |   D1=PILD05
689: |   D2=PILD06
690: |   D3=PILD07
691: |   D4=PILD08
692: |   D5=PILD09
693: |   D6=PILD10
694: |   D7=PILD11
695: |   D8=PILD12
696: |   D9=PILD13
697: |   DA=PILD14
698: |   DB=PILD15
699: | ENDIF
700: |
701: | APPEND BLANK
702: | REPLACE PILD01 WITH E1,PILD02 WITH WREPNO,PILD03 WITH E3,PILD04 WITH E4
703: | REPLACE PILD05 WITH D1,PILD06 WITH D2,PILD07 WITH D3,PILD08 WITH D4,;
704: | PILD09 WITH D5,PILD10 WITH D6,PILD11 WITH D7
705: | REPLACE PILD12 WITH D8,PILD13 WITH D9,PILD14 WITH DA,PILD15 WITH DB,;
706: | PILD19 WITH 5
707: | NOENT=E3
708: | GOTO PRCNO
709: | SKIP
710: | ENDDO
711: |
712: | SELECT 1
713: | LOCATE FOR REPN=WREPNO
714: | FYMD=PILDAT
715: | ENDIF
716: | *****
717: |
718: | SELECT 1
719: | LOCATE FOR REPRM>=FYMD .AND. REPTO<=SYMD .AND. ICRHEDK=0
720: | DO WHILE .NOT. EOF() .AND. REPRM>=FYMD .AND. REPTO<=SYMD

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721: IF AUTHOF<>'*' .OR. ICRHEDK<>0
722: | | SKIP
723: | | LOOP
724: | | ENDIF
725: HNO=RECNO()
726:
727: * IC-FILE
728: WREPNOI=REPNO
729:
730: SELECT 2
731: LOCATE FOR RNO=WREPNOI
732: DO WHILE .NOT. EOF() .AND. RNO=WREPNOI
733: | IF CORRNO<>0
734: | | SKIP
735: | | LOOP
736: | | ENDIF
737: SHAP=RECNO()
738: EENO=ENO
739: LOCATE FOR CORRNO=WREPNOI .AND. CORRENO=EENO
740: | IF EOF()
741: | | GOTO SHAP
742: | | ENDIF
743: SELECT 3
744:
745: * - UPDATE OF KMP (FROM) DATA ---
746: * STORE 0 TO FLG
747:
748: IF II->CHGTYP="LN "
749: | LOCATE FOR PILD02=WREPNO .AND. PILD06=II->BATNO .AND.;
750: | PILD10=II->ACCECD .AND. PILD14=II->ACCICD
751: | STORE PILD11-II->ACCEWT TO WEW
752: | STORE PILD13-II->ACCFIWT TO WIW
753:
754: SELECT 5
755: LOCATE FOR MBACODE=HH->MBACOD .AND. KMP<>II->KMP .AND. ;
756: FRKMP=II->CNTRYF
757: SELECT 3
758: REPLACE PILD05 WITH SUBSTR(MB->TOKMP,1,1);
759: PILD11 WITH WEW ,PILD13 WITH WIW
760: * STORE 1 TO FLG
761: ENDIF
762:
763: * IF PILD11<=0 .AND. PILD13<=0
764: * DELETE
765: * ENDIF
766:
767: * - UPDATE OF KMP ( TO ) DATA ---
768: IF SUBSTR(II->CHGTYP,1,1)<>"S" .AND. II->CHGTYP<>"LN "
769: | STORE 0 TO FLG
770:
771: LOCATE FOR SUBSTR(II->CNTRYF,1,1)=PILD05 .AND. II->BATNO=PILD06 ;
772: .AND. II->ACCECD=PILD10 .AND. II->ACCICD=PILD14
773: IF EOF()
774: | APPEND BLANK
775: | NOENT=NOENT+1
776: | REPLACE PILD05 WITH II->CNTRYT,PILD06 WITH II->BATNO ;
777:
780:

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781: -----
782: PILD10 WITH II->ACCED,PILD14 WITH II->ACCICD,;
783: PILD11 WITH II->ACCEWT,PILD13 WITH II->ACCFIWT
784: REPLACE PILD07 WITH II->BATYMS,PILD09 WITH II->ACCORG,;
785: PILD12 WITH II->ACCUNT,PILD15 WITH II->MESBCD,;
786: PILD16 WITH II->CONSICE,PILD01 WITH II->MBA
787: REPLACE PILD02 WITH WREPNO ,PILD03 WITH NOENT,;
788: PILD04 WITH II->CON ,PILD08 WITH II->MATDSC,;
789: PILD19 WITH 5
790: -----
791: ELSE
792: REPLACE PILD05 WITH II->CNTRYT
793: ENDIF
794: ENDIF
795: -----
796: IF SUBSTR(II->CHCTYP,1,1)="S"
797: LOCATE FOR PILD02=WREPNO .AND. PILD06=II->BATNO .AND. ;
798: PILD10=II->ACCED .AND. PILD14=II->ACCICD
799: REPLACE PILD11 WITH 0.,PILD13 WITH 0.
800: ENDIF
801: SELECT 2
802: GOTO SHAP
803: SKIP
804: -----
805: ENDDO
806: -----
807: SELECT 1
808: SKIP
809: ENDDO
810: -----
811: SELECT 3
812: SA=0
813: LOCATE FOR PILD02=WREPNO
814: DO WHILE .NOT. EOF() .AND. PILD02=WREPNO
815: IF PILD11<=0.
816: DELETE
817: ENDIF
818: SELECT 5
819: LOCATE FOR KMP=PP->PILD05
820: IF EOF()
821: SELECT 3
822: SA=SA+1
823: ENDIF
824: SELECT 3
825: SKIP
826: ENDDO
827: COPY TO WK1 FOR PILD02=WREPNO
828: USE WK1
829: SORT ON PILD05,PILD10,PILD12,PILD06 TO WK
830: USE &FNAM3 ALIAS PP
831: DELETE FOR PILD02=WREPNO
832: PACK
833: APPEND FROM WK
834: ERASE WK,WK1
835: NOENT=0
836: LOCATE FOR PILD02=WREPNO
837: DO WHILE .NOT. EOF()
838: NOENT=NOENT+1
839: REPLACE PILD03 WITH NOENT
840: SKIP

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841: ENDDO
842: Q8=NOENT
843:
844: RETURN
845:
846: *****
847:
848: PROCEDURE MRFL
849:
850: *****
851: * CREATE MATERIAL BALANCE REPORT *
852: *****
853:
854: WREPNO=1
855: *ENN=MENTRY
856: SELECT 4
857: LOCATE FOR MBRD13=0
858: DO WHILE .NOT. EOF()
859: | IF MBRD13=0
860: | | WREPNO=MBRDO2
861: | | ENDF
862: | SKIP
863: ENDDO
864:
865: *SET PB FROM BA IN THE LAST REPORT AND OTHERS=0.
866:
867: LOCATE FOR MBRDO2=WREPNO
868: DO WHILE .NOT. EOF() .AND. MBRDO2=WREPNO
869: MENO=MBRDO3
870: MREC=RECNO()
871: LOCATE FOR MBRD13=WREPNO .AND. MBRD14=MENO
872: IF EOF()
873: | GOTO MREC
874: | ENDF
875:
876: IF MBRDO5="BA "
877: | M1=MBRD04
878: | M2=MBRD06
879: | M3=MBRD07
880: | M4=MBRD08
881: | M5=MBRD09
882: | M6=MBRD10
883: | M7=MBRD11
884: | M8=MBRD12
885:
886: * PB
887: APPEND BLANK
888: REPLACE MBRD01 WITH HH->MBACOD
889: REPLACE MBRD02 WITH WREPNO
890: REPLACE MBRD03 WITH ENN+1
891: REPLACE MBRD04 WITH M1
892: REPLACE MBRD05 WITH "PB "
893: REPLACE MBRD06 WITH M2
894: REPLACE MBRD07 WITH M3
895: REPLACE MBRD08 WITH M4
896: REPLACE MBRD09 WITH M5
897: REPLACE MBRD10 WITH M6
898: REPLACE MBRD11 WITH M7
899: REPLACE MBRD12 WITH M8
900: REPLACE MBRD15 WITH 7

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901:
902:
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* RF
APPEND BLANK
REPLACE MBRD01 WITH HH->MBACOD
REPLACE MBRD02 WITH WREPNO
REPLACE MBRD03 WITH ENN+2
REPLACE MBRD04 WITH M1
REPLACE MBRD05 WITH "RF "
REPLACE MBRD06 WITH M2
REPLACE MBRD07 WITH M3
REPLACE MBRD09 WITH M5
REPLACE MBRD11 WITH M7
REPLACE MBRD12 WITH M8
REPLACE MBRD15 WITH 7

* NP
APPEND BLANK
REPLACE MBRD01 WITH HH->MBACOD
REPLACE MBRD02 WITH WREPNO
REPLACE MBRD03 WITH ENN+3
REPLACE MBRD04 WITH M1
REPLACE MBRD05 WITH "NP "
REPLACE MBRD06 WITH M2
REPLACE MBRD07 WITH M3
REPLACE MBRD09 WITH M5
REPLACE MBRD11 WITH M7
REPLACE MBRD12 WITH M8
REPLACE MBRD15 WITH 7

* SF
APPEND BLANK
REPLACE MBRD01 WITH HH->MBACOD
REPLACE MBRD02 WITH WREPNO
REPLACE MBRD03 WITH ENN+4
REPLACE MBRD04 WITH M1
REPLACE MBRD05 WITH "SF "
REPLACE MBRD06 WITH M2
REPLACE MBRD07 WITH M3
REPLACE MBRD09 WITH M5
REPLACE MBRD11 WITH M7
REPLACE MBRD12 WITH M8
REPLACE MBRD15 WITH 7

* LN
APPEND BLANK
REPLACE MBRD01 WITH HH->MBACOD
REPLACE MBRD02 WITH WREPNO
REPLACE MBRD03 WITH ENN+5
REPLACE MBRD04 WITH M1
REPLACE MBRD05 WITH "LN "
REPLACE MBRD06 WITH M2
REPLACE MBRD07 WITH M3
REPLACE MBRD09 WITH M5
REPLACE MBRD11 WITH M7
REPLACE MBRD12 WITH M8
REPLACE MBRD15 WITH 7

* BE
APPEND BLANK
REPLACE MBRD01 WITH HH->MBACOD

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961: REPLACE MBRD02 WITH WREPNO
962: REPLACE MBRD03 WITH ENN+6
963: REPLACE MBRD04 WITH M1
964: REPLACE MBRD05 WITH "BE "
965: REPLACE MBRD06 WITH M2
966: REPLACE MBRD07 WITH M3
967: REPLACE MBRD08 WITH M4
968: REPLACE MBRD09 WITH M5
969: REPLACE MBRD10 WITH M6
970: REPLACE MBRD11 WITH M7
971: REPLACE MBRD12 WITH M8
972: REPLACE MBRD15 WITH 7
973:
974: * BA
975: APPEND BLANK
976: REPLACE MBRD01 WITH HH->MBACOD
977: REPLACE MBRD02 WITH WREPNO
978: REPLACE MBRD03 WITH ENN+7
979: REPLACE MBRD04 WITH M1
980: REPLACE MBRD05 WITH "BA "
981: REPLACE MBRD06 WITH M2
982: REPLACE MBRD07 WITH M3
983: REPLACE MBRD08 WITH M4
984: REPLACE MBRD09 WITH M5
985: REPLACE MBRD10 WITH M6
986: REPLACE MBRD11 WITH M7
987: REPLACE MBRD12 WITH M8
988: REPLACE MBRD15 WITH 7
989:
990: * PE
991: APPEND BLANK
992: REPLACE MBRD01 WITH HH->MBACOD
993: REPLACE MBRD02 WITH WREPNO
994: REPLACE MBRD03 WITH ENN+8
995: REPLACE MBRD04 WITH M1
996: REPLACE MBRD05 WITH "PE "
997: REPLACE MBRD06 WITH M2
998: REPLACE MBRD07 WITH M3
999: REPLACE MBRD09 WITH M5
1000: REPLACE MBRD11 WITH M7
1001: REPLACE MBRD12 WITH M8
1002: REPLACE MBRD15 WITH 7
1003:
1004: * MF
1005: APPEND BLANK
1006: REPLACE MBRD01 WITH HH->MBACOD
1007: REPLACE MBRD02 WITH WREPNO
1008: REPLACE MBRD03 WITH ENN+9
1009: REPLACE MBRD04 WITH M1
1010: REPLACE MBRD05 WITH "MF "
1011: REPLACE MBRD06 WITH M2
1012: REPLACE MBRD07 WITH M3
1013: REPLACE MBRD08 WITH -M4
1014: REPLACE MBRD09 WITH M5
1015: REPLACE MBRD10 WITH -M6
1016: REPLACE MBRD11 WITH M7
1017: REPLACE MBRD12 WITH M8
1018: REPLACE MBRD15 WITH 7
1019:
1020: * RA

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1021: APPEND BLANK
1022: REPLACE MBRD01 WITH HH->MBACOD
1023: REPLACE MBRD02 WITH WREPNO
1024: REPLACE MBRD03 WITH ENN+10
1025: REPLACE MBRD04 WITH M1
1026: REPLACE MBRD05 WITH "RA "
1027: REPLACE MBRD06 WITH M2
1028: REPLACE MBRD07 WITH M3
1029: REPLACE MBRD09 WITH M5
1030: REPLACE MBRD11 WITH M7
1031: REPLACE MBRD12 WITH M8
1032: REPLACE MBRD15 WITH 7
1033:
1034: ENN=ENN+10
1035: ENDIF
1036: GOTO MREC
1037:
1038: SKIP
1039: ENDDO
1040:
1041: *SET PE FROM LAST PIL REPORT
1042:
1043: SELECT 1
1044: LOCATE FOR ICRHEDK=4 .AND. PILDAT=SYMD .AND. AUTHOF<>"*"
1045:
1046: SELECT 3
1047: LOCATE FOR PILD02=HH->REPNO
1048: DO WHILE .NOT. EOF() .AND. PILD02=HH->REPNO
1049: IF PILD17<>0
1050: | SKIP
1051: | LOOP
1052: | ENDIF
1053:
1054: PILREP=PILD02
1055: PILENO=PILD03
1056: PENO=RECNO()
1057: LOCATE FOR PILD17=PILREP .AND. PILD18=PILENO
1058: IF EOF()
1059: | GOTO PENO
1060: | ENDIF
1061:
1062:
1063: SELECT 4
1064: LOCATE FOR MBRD02=WREPNO .AND. MBRD05="PE " .AND. MBRD07=PP->PILD10 ;
1065: .AND. MBRD11=PP->PILD14 .AND. MBRD13=0
1066: IF EOF()
1067: | * PB
1068: | APPEND BLANK
1069: | REPLACE MBRD01 WITH HH->MBACOD
1070: | REPLACE MBRD02 WITH WREPNO
1071: | REPLACE MBRD03 WITH ENN+1
1072: | REPLACE MBRD05 WITH "PB "
1073: | REPLACE MBRD06 WITH PP->PILD09
1074: | REPLACE MBRD07 WITH PP->PILD10
1075: | REPLACE MBRD09 WITH PP->PILD12
1076: | REPLACE MBRD11 WITH PP->PILD14
1077: | REPLACE MBRD15 WITH 7
1078: | * RF
1079: | APPEND BLANK
1080: | REPLACE MBRD01 WITH HH->MBACOD

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1081: REPLACE MBRD02 WITH WREPNO
1082: REPLACE MBRD03 WITH ENN+2
1083: REPLACE MBRD05 WITH "RF"
1084: REPLACE MBRD06 WITH PP->PILD09
1085: REPLACE MBRD07 WITH PP->PILD10
1086: REPLACE MBRD09 WITH PP->PILD12
1087: REPLACE MBRD11 WITH PP->PILD14
1088: REPLACE MBRD15 WITH 7
1089:
1090: * NP
1091: APPEND BLANK
1092: REPLACE MBRD01 WITH HH->MBACOD
1093: REPLACE MBRD02 WITH WREPNO
1094: REPLACE MBRD03 WITH ENN+3
1095: REPLACE MBRD05 WITH "NP"
1096: REPLACE MBRD06 WITH PP->PILD09
1097: REPLACE MBRD07 WITH PP->PILD10
1098: REPLACE MBRD09 WITH PP->PILD12
1099: REPLACE MBRD11 WITH PP->PILD14
1100: REPLACE MBRD15 WITH 7
1101:
1102: * SF
1103: APPEND BLANK
1104: REPLACE MBRD01 WITH HH->MBACOD
1105: REPLACE MBRD02 WITH WREPNO
1106: REPLACE MBRD03 WITH ENN+4
1107: REPLACE MBRD05 WITH "SF"
1108: REPLACE MBRD06 WITH PP->PILD09
1109: REPLACE MBRD07 WITH PP->PILD10
1110: REPLACE MBRD09 WITH PP->PILD12
1111: REPLACE MBRD11 WITH PP->PILD14
1112: REPLACE MBRD15 WITH 7
1113:
1114: * LN
1115: APPEND BLANK
1116: REPLACE MBRD01 WITH HH->MBACOD
1117: REPLACE MBRD02 WITH WREPNO
1118: REPLACE MBRD03 WITH ENN+5
1119: REPLACE MBRD05 WITH "LN"
1120: REPLACE MBRD06 WITH PP->PILD09
1121: REPLACE MBRD07 WITH PP->PILD10
1122: REPLACE MBRD09 WITH PP->PILD12
1123: REPLACE MBRD11 WITH PP->PILD14
1124: REPLACE MBRD15 WITH 7
1125:
1126: * BE
1127: APPEND BLANK
1128: REPLACE MBRD01 WITH HH->MBACOD
1129: REPLACE MBRD02 WITH WREPNO
1130: REPLACE MBRD03 WITH ENN+6
1131: REPLACE MBRD05 WITH "BE"
1132: REPLACE MBRD06 WITH PP->PILD09
1133: REPLACE MBRD07 WITH PP->PILD10
1134: REPLACE MBRD09 WITH PP->PILD12
1135: REPLACE MBRD11 WITH PP->PILD14
1136: REPLACE MBRD15 WITH 7
1137:
1138: * BA
1139: APPEND BLANK
1140: REPLACE MBRD01 WITH HH->MBACOD

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1141: REPLACE MBRD02 WITH WREPNO
1142: REPLACE MBRD03 WITH ENN+7
1143: REPLACE MBRD05 WITH "BA "
1144: REPLACE MBRD06 WITH PP->PILD09
1145: REPLACE MBRD07 WITH PP->PILD10
1146: REPLACE MBRD09 WITH PP->PILD12
1147: REPLACE MBRD11 WITH PP->PILD14
1148: REPLACE MBRD15 WITH
1149: 7
1150:
1151: * PE
1152: APPEND BLANK
1153: REPLACE MBRD01 WITH HH->MBACOD
1154: REPLACE MBRD02 WITH WREPNO
1155: REPLACE MBRD03 WITH ENN+8
1156: REPLACE MBRD05 WITH "PE "
1157: REPLACE MBRD06 WITH PP->PILD09
1158: REPLACE MBRD07 WITH PP->PILD10
1159: REPLACE MBRD08 WITH PP->PILD11
1160: REPLACE MBRD09 WITH PP->PILD12
1161: REPLACE MBRD10 WITH PP->PILD13
1162: REPLACE MBRD11 WITH PP->PILD14
1163: REPLACE MBRD15 WITH
1164: 7
1165:
1166: * MF
1167: APPEND BLANK
1168: REPLACE MBRD01 WITH HH->MBACOD
1169: REPLACE MBRD02 WITH WREPNO
1170: REPLACE MBRD03 WITH ENN+9
1171: REPLACE MBRD05 WITH "MF "
1172: REPLACE MBRD06 WITH PP->PILD09
1173: REPLACE MBRD07 WITH PP->PILD10
1174: REPLACE MBRD08 WITH PP->PILD11
1175: REPLACE MBRD09 WITH PP->PILD12
1176: REPLACE MBRD10 WITH PP->PILD13
1177: REPLACE MBRD11 WITH PP->PILD14
1178: REPLACE MBRD15 WITH
1179: 7
1180:
1181: * RA
1182: APPEND BLANK
1183: REPLACE MBRD01 WITH HH->MBACOD
1184: REPLACE MBRD02 WITH WREPNO
1185: REPLACE MBRD03 WITH ENN+10
1186: REPLACE MBRD05 WITH "RA "
1187: REPLACE MBRD06 WITH PP->PILD09
1188: REPLACE MBRD07 WITH PP->PILD10
1189: REPLACE MBRD09 WITH PP->PILD12
1190: REPLACE MBRD11 WITH PP->PILD14
1191: REPLACE MBRD15 WITH
1192: 7
1193: ENN=ENN+10
1194:
1195: ELSE
1196: REPLACE MBRD08 WITH MBRD08+PP->PILD11
1197: REPLACE MBRD10 WITH MBRD10+PP->PILD13
1198: * MF
1199: SKIP
1200: REPLACE MBRD08 WITH MBRD08+PP->PILD11
1201: REPLACE MBRD10 WITH MBRD10+PP->PILD13
1202: ENDDIF

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1201: SELECT 3
1202: GOTO PENO
1203: SKIP
1204: ENDDO
1205:
1206: * UPDATE MBR BY IC-FILE
1207: SELECT 1
1208: LOCATE FOR REPRM>=FYMD .AND. AUTHOF="*" .AND. ICRHEDK=0
1209: DO WHILE .NOT. EOF() .AND. REPRM>=FYMD .AND. AUTHOF="*" .AND. ICRHEDK=0
1210: SELECT 2
1211: LOCATE FOR RNO=HH->REPNO
1212: DO WHILE RNO=HH->REPNO .AND. .NOT. EOF()
1213: ICNO=RECNO()
1214: IF CHGTYP="TR "
1215: | EXIT
1216: | ENDDIF
1217:
1218: IF CORRNO<>0
1219: | SKIP
1220: | LOOP
1221: ENDDIF
1222: RRNO=RNO
1223: EENO=EENO
1224: LOCATE FOR CORRNO=RRNO .AND. CORRENO=EENO
1225: IF EOF()
1226: | GOTO ICNO
1227: | ENDDIF
1228:
1229: IF CHGTYP="RF " .OR. CHGTYP="NP "
1230: | WF=ACCEWT
1231: | WI=ACCFIWT
1232: ENDDIF
1233: IF CHGTYP="SF " .OR. CHGTYP="LN "
1234: | WF=-ACCEWT
1235: | WI=-ACCFIWT
1236: ENDDIF
1237:
1238: SELECT 4
1239: LOCATE FOR MBRD07=II->ACCECD .AND. MBRD11=II->ACCICD .AND. ;
1240: MBRD05=II->CHGTYP .AND. MBRD02=WREPNO .AND. ;
1241: MBRD13=0
1242: IF EOF()
1243: | * PB
1244: | APPEND BLANK
1245: | REPLACE MBRD01 WITH HH->MBACOD
1246: | REPLACE MBRD02 WITH WREPNO
1247: | REPLACE MBRD03 WITH ENN+1
1248: | REPLACE MBRD05 WITH "PB "
1249: | REPLACE MBRD06 WITH II->ACCCRG
1250: | REPLACE MBRD07 WITH II->ACCECD
1251: | REPLACE MBRD09 WITH II->ACCUPT
1252: | REPLACE MBRD11 WITH II->ACCICD
1253: | REPLACE MBRD15 WITH 7
1254:
1255: | * RF
1256: | APPEND BLANK
1257: | REPLACE MBRD01 WITH HH->MBACOD
1258: | REPLACE MBRD02 WITH WREPNO
1259: | REPLACE MBRD03 WITH ENN+2
1260: | REPLACE MBRD05 WITH "RF "

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1261: REPLACE MBRD06 WITH II->ACCORG
1262: REPLACE MBRD07 WITH II->ACCCECD
1263: REPLACE MBRD09 WITH II->ACCUNT
1264: REPLACE MBRD11 WITH II->ACCICD
1265: REPLACE MBRD15 WITH 7
1266: IF MBRD05=II->CHGTYP
1267:   REPLACE MBRD08 WITH II->ACCEWT
1268:   REPLACE MBRD10 WITH II->ACCFIWT
1269: ENDIF
1270:
1271: * NP
1272: APPEND BLANK
1273: REPLACE MBRD01 WITH HH->MBACOD
1274: REPLACE MBRD02 WITH WREPNO
1275: REPLACE MBRD03 WITH ENN+3
1276: REPLACE MBRD05 WITH "NP"
1277: REPLACE MBRD06 WITH II->ACCORG
1278: REPLACE MBRD07 WITH II->ACCCECD
1279: REPLACE MBRD09 WITH II->ACCUNT
1280: REPLACE MBRD11 WITH II->ACCICD
1281: REPLACE MBRD15 WITH 7
1282: IF MBRD05=II->CHGTYP
1283:   REPLACE MBRD08 WITH II->ACCEWT
1284:   REPLACE MBRD10 WITH II->ACCFIWT
1285: ENDIF
1286:
1287: * SF
1288: APPEND BLANK
1289: REPLACE MBRD01 WITH HH->MBACOD
1290: REPLACE MBRD02 WITH WREPNO
1291: REPLACE MBRD03 WITH ENN+4
1292: REPLACE MBRD05 WITH "SF"
1293: REPLACE MBRD06 WITH II->ACCORG
1294: REPLACE MBRD07 WITH II->ACCCECD
1295: REPLACE MBRD09 WITH II->ACCUNT
1296: REPLACE MBRD11 WITH II->ACCICD
1297: REPLACE MBRD15 WITH 7
1298: IF MBRD05=II->CHGTYP
1299:   REPLACE MBRD08 WITH II->ACCEWT
1300:   REPLACE MBRD10 WITH II->ACCFIWT
1301: ENDIF
1302:
1303: * LN
1304: APPEND BLANK
1305: REPLACE MBRD01 WITH HH->MBACOD
1306: REPLACE MBRD02 WITH WREPNO
1307: REPLACE MBRD03 WITH ENN+5
1308: REPLACE MBRD05 WITH "LN"
1309: REPLACE MBRD06 WITH II->ACCORG
1310: REPLACE MBRD07 WITH II->ACCCECD
1311: REPLACE MBRD09 WITH II->ACCUNT
1312: REPLACE MBRD11 WITH II->ACCICD
1313: REPLACE MBRD15 WITH 7
1314: IF MBRD05=II->CHGTYP
1315:   REPLACE MBRD08 WITH II->ACCEWT
1316:   REPLACE MBRD10 WITH II->ACCFIWT
1317: ENDIF
1318:
1319: * BE
1320: APPEND BLANK

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1321: REPLACE MBRD01 WITH HH->MBACOD
1322: REPLACE MBRD02 WITH WREPNO
1323: REPLACE MBRD03 WITH ENN+6
1324: REPLACE MBRD05 WITH "BE "
1325: REPLACE MBRD06 WITH II->ACCCORG
1326: REPLACE MBRD07 WITH II->ACCECD
1327: REPLACE MBRD09 WITH II->ACCCUNT
1328: REPLACE MBRD11 WITH II->ACCCICD
1329: REPLACE MBRD15 WITH 7
1330: IF II->CHGTYP="RF " .OR. II->CHGTYP="NP "
1331: | REPLACE MBRD08 WITH II->ACCEWT
1332: | REPLACE MBRD10 WITH II->ACCFIWT
1333: ENDIF
1334:
1335: * BA
1336: APPEND BLANK
1337: REPLACE MBRD01 WITH HH->MBACOD
1338: REPLACE MBRD02 WITH WREPNO
1339: REPLACE MBRD03 WITH ENN+7
1340: REPLACE MBRD05 WITH "BA "
1341: REPLACE MBRD06 WITH II->ACCCORG
1342: REPLACE MBRD07 WITH II->ACCECD
1343: REPLACE MBRD09 WITH II->ACCCUNT
1344: REPLACE MBRD11 WITH II->ACCCICD
1345: REPLACE MBRD15 WITH 7
1346: IF II->CHGTYP="RF " .OR. II->CHGTYP="NP "
1347: | REPLACE MBRD08 WITH II->ACCEWT
1348: | REPLACE MBRD10 WITH II->ACCFIWT
1349: ENDIF
1350:
1351: * PE
1352: APPEND BLANK
1353: REPLACE MBRD01 WITH HH->MBACOD
1354: REPLACE MBRD02 WITH WREPNO
1355: REPLACE MBRD03 WITH ENN+8
1356: REPLACE MBRD05 WITH "PE "
1357: REPLACE MBRD06 WITH II->ACCCORG
1358: REPLACE MBRD07 WITH II->ACCECD
1359: REPLACE MBRD09 WITH II->ACCCUNT
1360: REPLACE MBRD11 WITH II->ACCCICD
1361: REPLACE MBRD15 WITH 7
1362:
1363: * MF
1364: APPEND BLANK
1365: REPLACE MBRD01 WITH HH->MBACOD
1366: REPLACE MBRD02 WITH WREPNO
1367: REPLACE MBRD03 WITH ENN+9
1368: REPLACE MBRD05 WITH "MF "
1369: REPLACE MBRD06 WITH II->ACCCORG
1370: REPLACE MBRD07 WITH II->ACCECD
1371: REPLACE MBRD09 WITH II->ACCCUNT
1372: REPLACE MBRD11 WITH II->ACCCICD
1373: REPLACE MBRD15 WITH 7
1374:
1375: * RA
1376: APPEND BLANK
1377: REPLACE MBRD01 WITH HH->MBACOD
1378: REPLACE MBRD02 WITH WREPNO
1379: REPLACE MBRD03 WITH ENN+10
1380: REPLACE MBRD05 WITH "RA "

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1381: REPLACE MBRD06 WITH II->ACCORG
1382: REPLACE MBRD07 WITH II->ACCECD
1383: REPLACE MBRD09 WITH II->ACCUNT
1384: REPLACE MBRD11 WITH II->ACCICD
1385: REPLACE MBRD15 WITH 7
1386:
1387: ELSE
1388: REPLACE MBRD08 WITH MBRD08+II->ACCEWT
1389: REPLACE MBRD10 WITH MBRD10+II->ACCFIWT
1390:
1391: * BE
1392: LOCATE FOR MBRD02=WREPNO .AND. MBRD07=II->ACCECD .AND. ;
1393: MBRD11=II->ACCICD .AND. MBRD05="BE "
1394: REPLACE MBRD08 WITH MBRD08+WE
1395: REPLACE MBRD10 WITH MBRD10+WI
1396:
1397: * BA
1398: SKIP
1399: REPLACE MBRD08 WITH MBRD08+WE
1400: REPLACE MBRD10 WITH MBRD10+WI
1401:
1402: * MF
1403: SKIP 2
1404: REPLACE MBRD08 WITH MBRD08-WE
1405: REPLACE MBRD10 WITH MBRD10-WI
1406:
1407: ENDIF
1408:
1409:
1410: SELECT 2
1411: GOTO ICNO
1412: SKIP
1413: ENDDO
1414:
1415: SELECT 1
1416: SKIP
1417:
1418: ENDDO
1419: Q8=ENN
1420: RETURN
1421:
1422: *****
1423:
1424: PROCEDURE CORMBR
1425: *****
1426: * CORRECTS MBR-FILE BY PII-CORRECTION DATA *
1427: *****
1428:
1429: SELECT 3
1430: LOCATE FOR PILD02=WREPNO
1431: DO WHILE .NOT. EOF() .AND. PILD02=WREPNO
1432: IF PILD17=0
1433: SKIP
1434: LOOP
1435: ENDIF
1436:
1437: IF PILD17<>0
1438: NREC=RECNO()
1439: CREPT=PILD17
1440: CENT =PILD18

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1441: LOCATE FOR PILD02=CREPT .AND. PILD03=CENT
1442: IF EOF ( )
1443: | GOTO NREC
1444: | SKIP
1445: | LOOP
1446: | ENDIF
1447:
1448: * CORRECT MBR
1449: SELECT 4
1450: LOCATE FOR MBRD02=CREPT+1 .AND. MBRD07=PP->PILD10 .AND. ;
1451: MBRD11=PP->PILD14 .AND. MBRD05="PE "
1452: MBREC=RECNO( )
1453: ENN=ENN+1
1454: M1 =MBRD01
1455: M4 =MBRD04
1456: M14=MBRD03
1457: M6 =MBRD06
1458: M7 =MBRD07
1459: M8 =MBRD08-PP->PILD11
1460: M9 =MBRD09
1461: M10=MBRD10-PP->PILD13
1462: M11=MBRD11
1463:
1464: APPEND BLANK
1465: REPLACE MBRD01 WITH M1
1466: REPLACE MBRD02 WITH WREPNO+1
1467: REPLACE MBRD03 WITH ENN
1468: REPLACE MBRD04 WITH M4
1469: REPLACE MBRD05 WITH "PE "
1470: REPLACE MBRD06 WITH M6
1471: REPLACE MBRD07 WITH M7
1472: REPLACE MBRD08 WITH M8
1473: REPLACE MBRD09 WITH M9
1474: REPLACE MBRD10 WITH M10
1475: REPLACE MBRD11 WITH M11
1476: REPLACE MBRD13 WITH CREPT+1
1477: REPLACE MBRD14 WITH M14
1478: REPLACE MBRD15 WITH 7
1479:
1480: * MF
1481: GOTO MBREC+1
1482: M13=CREPT+1
1483: M14=MBRD03
1484: LOCATE FOR MBRD13=CREPT+1 .AND. MBRD14=M14
1485: IF EOF ( )
1486: | GOTO MBREC+1
1487: | ELSE
1488: | M14=MBRD03
1489: | M13=MBRD02
1490: ENDIF
1491: ENN=ENN+1
1492: M8 =MBRD08-PP->PILD11
1493: M10=MBRD10-PP->PILD13
1494:
1495: APPEND BLANK
1496: REPLACE MBRD01 WITH M1
1497: REPLACE MBRD02 WITH WREPNO+1
1498: REPLACE MBRD03 WITH ENN
1499: REPLACE MBRD04 WITH M4
1500: REPLACE MBRD05 WITH "MF "

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1501: REPLACE MBRD06 WITH M6
1502: REPLACE MBRD07 WITH M7
1503: REPLACE MBRD08 WITH M8
1504: REPLACE MBRD09 WITH M9
1505: REPLACE MBRD10 WITH M10
1506: REPLACE MBRD11 WITH M11
1507: REPLACE MBRD13 WITH M13
1508: REPLACE MBRD14 WITH M14
1509: REPLACE MBRD15 WITH 7
1510:
1511: SELECT 3
1512: GOTO NREC
1513:
1514:
1515: SELECT 4
1516: LOCATE FOR MBRD02=WREPNO+1 .AND. MBRD07=PP->PILD10 .AND. ;
1517: MBRD11=PP->PILD14 .AND. MBRD05="PE "
1518: IF .NOT. EOF( )
1519: REPLACE MBRD08 WITH MBRD08+PP->PILD11
1520: REPLACE MBRD10 WITH MBRD10+PP->PILD13
1521: * MF
1522: SKIP
1523: REPLACE MBRD08 WITH MBRD08+PP->PILD11
1524: REPLACE MBRD10 WITH MBRD10+PP->PILD13
1525: ENDIF
1526:
1527: IF EOF( )
1528: LOCATE FOR MBRD02=CREPT+1 .AND. MBRD07=PP->PILD10 .AND. ;
1529: MBRD11=PP->PILD14 .AND. MBRD05="PE "
1530: MBREC=RECNO( )
1531: SELECT 1
1532: LOCATE FOR REPNO=CREPT+1
1533: CORNO=ACCLNO
1534: SELECT 4
1535:
1536: IF .NOT. EOF( )
1537: ENN=ENN+1
1538: M1=MBRD01
1539: M4=MBRD04
1540: M6=MBRD06
1541: M7=MBRD07
1542: M8=MBRD08+PP->PILD11
1543: M9=MBRD09
1544: M10=MBRD10+PP->PILD13
1545: M11= MBRD11
1546: M14=MBRD03
1547:
1548: APPEND BLANK
1549: REPLACE MBRD01 WITH M1
1550: REPLACE MBRD02 WITH WREPNO+1
1551: REPLACE MBRD03 WITH ENN
1552: REPLACE MBRD04 WITH M4
1553: REPLACE MBRD05 WITH "PE "
1554: REPLACE MBRD06 WITH M6
1555: REPLACE MBRD07 WITH M7
1556: REPLACE MBRD08 WITH M8
1557: REPLACE MBRD09 WITH M9
1558: REPLACE MBRD10 WITH M10
1559: REPLACE MBRD11 WITH M11
1560: REPLACE MBRD13 WITH CREPT+1

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1561: REPLACE MBRD14 WITH M14
1562: REPLACE MBRD15 WITH 7
1563:
1564: * MF
1565: GOTO MBRD14
1566: ENN=ENN+1
1567: M8=MBRD08+PP->PILD11
1568: M10=MBRD10+PP->PILD13
1569: M14=MBRD03
1570:
1571: APPEND BLANK
1572: REPLACE MBRD01 WITH M1
1573: REPLACE MBRD02 WITH WREPNO+1
1574: REPLACE MBRD03 WITH ENN
1575: REPLACE MBRD04 WITH M4
1576: REPLACE MBRD05 WITH "MF "
1577: REPLACE MBRD06 WITH M6
1578: REPLACE MBRD07 WITH M7
1579: REPLACE MBRD08 WITH M8
1580: REPLACE MBRD09 WITH M9
1581: REPLACE MBRD10 WITH M10
1582: REPLACE MBRD11 WITH M11
1583: REPLACE MBRD13 WITH CREPT+1
1584: REPLACE MBRD14 WITH M14
1585: REPLACE MBRD15 WITH 7
1586:
1587: ELSE
1588: CORNO=CORNO+1
1589: ENN=ENN+1
1590: M1=MBRD01
1591: M4=MBRD04
1592: M6=MBRD06
1593: M7=MBRD07
1594: M8=PP->PILD11
1595: M9=MBRD09
1596: M10=PP->PILD13
1597: M11= MBRD11
1598: M14=CORNO
1599:
1600: APPEND BLANK
1601: REPLACE MBRD01 WITH M1
1602: REPLACE MBRD02 WITH WREPNO+1
1603: REPLACE MBRD03 WITH ENN
1604: REPLACE MBRD04 WITH M4
1605: REPLACE MBRD05 WITH "PR "
1606: REPLACE MBRD06 WITH M6
1607: REPLACE MBRD07 WITH M7
1608: REPLACE MBRD08 WITH M8
1609: REPLACE MBRD09 WITH M9
1610: REPLACE MBRD10 WITH M10
1611: REPLACE MBRD11 WITH M11
1612: REPLACE MBRD13 WITH CREPT+1
1613: REPLACE MBRD14 WITH M14
1614: REPLACE MBRD15 WITH 7
1615:
1616: ENDIF
1617: ENDIF
1618: ENDIF
1619:
1620: SELECT 3

```

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1621: | SKIP  
1622: ENDDO  
1623: RETURN



```

1: *****
2: * IC REPORT FILE INPUT ROUTINE *
3: *****
4: SET PROCEDURE TO ENTICR
5: *PUBLIC Q6,Q7,Q8,WREPNO,WMBA,WORG,WFCL,WDAT,ICRWR
6:
7: CLEAR
8:
9: ?? &Y
10: @ 1,10 SAY "*****"
11: @ 2,10 SAY "*****"
12: @ 3,10 SAY "*****"
13: @ 7,10 SAY "*****"
14: @ 17,11 SAY "*****"
15:
16: Q=" "
17: DO WHILE .T.
18: @ 7,40 GET Q
19: READ
20: IF Q=" "
21: | RETURN
22: | ENDIF
23:
24: * SET FACILITY CODE, NAME, MBA CODE AND NAME
25:
26: IF .NOT. FILE("A\FAC.DBF")
27: | @ 20,20 SAY &R+"FACILITY DEFINITION FILE DOES NOT EXIST"
28: | AA=" "
29: | @ 20,65 GET AA
30: | READ
31: | @ 20,20 SAY SPACE(55)
32: | CLOSE DATABASES
33: | CLOSE PROCEDURE
34: | RETURN
35: | ENDIF
36:
37: USE A_FAC
38: GO TOP
39: QC=CODE
40: QN=NAME
41: SKIP
42: QJ=CODE
43: Q2=NAME
44: LOCATE FOR CODE=Q
45: IF EOF()
46: | @ 20,20 SAY &R+"MBA CODE (" +Q+" )" DOES NOT EXIST IN FACILITY FILE"
47: | AA=" "
48: | @ 20,69 GET AA
49: | READ
50: | @ 20,20 SAY SPACE(55)
51: | LOOP
52: | ENDIF
53: Q3=CODE
54: Q4=NAME
55:
56: * SET FILE NAME
57: IF .NOT. FILE("A_MBAO.DBF")
58: | @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"
59: | AA=" "
60: | @ 20,65 GET AA

```

```

61:  READ
62:  @ 20,20 SAY SPACE(55)
63:  CLOSE DATABASES
64:  CLOSE PROCEDURE
65:  RETURN
66:  ENDIF
67:
68:  USE A.MBANO
69:  LOCATE FOR MBA=Q
70:  IF EOF()
71:  @ 20,20 SAY &R+"MBA CODE("+Q+") DOES NOT EXIST IN MBA FILE "
72:  AA=" "
73:  @ 20,69 GET AA
74:  READ
75:  @ 20,20 SAY SPACE(55)
76:  LOOP
77:  ENDIF
78:  NN = LTRIM(STR(RECNO()))
79:  FNAM1="A_HEAD"-NN
80:  FNAM2="A_IC"-NN
81:  FNAM3="A_MBA"
82:  FNAM4="A_BOOK"-NN
83:  FNAM5="A_ICR"-NN
84:  EXIT
85:  ENDDO
86:
87:  *CREATE DUMMY FROM STR_HEAD
88:  IF .NOT. FILE("&FNAM1..DBF")
89:  *SELECT 1
90:  *CREATE &FNAM1 FROM STR_HEAD
91:  COPY FILE STR_HEAD.DBF TO &FNAM1..DBF
92:  ENDIF
93:  IF .NOT. FILE("&FNAM2..DBF")
94:  *SELECT 2
95:  *CREATE &FNAM2 FROM STR_IC
96:  COPY FILE STR_IC.DBF TO &FNAM2..DBF
97:  ENDIF
98:  IF .NOT. FILE("&FNAM4..DBF")
99:  *SELECT 5
100:  *CREATE &FNAM4 FROM STR_BOOK
101:  COPY FILE STR_BOOK.DBF TO &FNAM4..DBF
102:  ENDIF
103:  IF .NOT. FILE("&FNAM5..DBF")
104:  *SELECT 6
105:  *CREATE &FNAM5 FROM STR_ICR
106:  COPY FILE STR_ICR.DBF TO &FNAM5..DBF
107:  ENDIF
108:
109:  SELECT 1
110:  USE &FNAM1 ALIAS HD
111:  SELECT 2
112:  USE &FNAM2 ALIAS II
113:  SELECT 3
114:  USE &FNAM3 ALIAS MB
115:  SELECT 5
116:  USE &FNAM4 ALIAS BB
117:  SELECT 6
118:  USE &FNAM5 ALIAS IR
119:
120:  CLEAR

```

```

121: SELECT 1
122: * IF RECC()=0
123: COUNT TO IIFL
124: IF IIFL=0
125: WREPNO=0
126: ELSE
127: GOTO 1
128: DO WHILE .NOT. EOF()
129: IF ICRHEDK=1
130: SKIP
131: LOOP
132: ENDIF
133: WREPNO=REPNO
134: SKIP
135: ENDDO
136: ENDIF
137:
138: LOCATE FOR REPNO=WREPNO
139: * STORE FCLCOD TO Q1
140: * STORE FCLNAM TO Q2
141: * STORE MBACOD TO Q3
142: * STORE MBANAM TO Q4
143: STORE ENTDAT TO Q5
144: STORE REPRM TO Q6
145: STORE REPTO TO Q7
146: STORE ACCLNO TO Q8
147: STORE SIGNAT TO Q9
148: STORE ICRHEDK TO Q10
149: WREPNO = WREPNO+1
150:
151:
152: DO WHILE .T.
153:
154: CLEAR
155: ?? &Y
156: @ 2,5 SAY "*****"
157: @ 3,5 SAY "*"
158: @ 4,5 SAY "IC HEADER INFORMATION*****"
159: @ 6,5 SAY "ORGANIZATION CODE : NAME : "
160: @ 7,5 SAY "FACILITY CODE : NAME : "
161: @ 8,5 SAY "MBA CODE : NAME : "
162: @ 9,5 SAY "REPORT No. : "+STR(WREPNO,4)
163: @ 10,5 SAY "ENTRY DATE : "
164: @ 11,5 SAY "PERIOD (FROM) : "
165: @ 12,5 SAY "NUMBER OF ENTRY : "
166: @ 13,5 SAY "SIGNATURE : "
167: @ 14,5 SAY " (EXIT WHEN ENTRY DATE IS '-1' )"
168:
169: ?? &W
170: @ 6,24 SAY QC
171: @ 6,36 SAY QN
172: @ 7,24 SAY Q1
173: @ 7,36 SAY Q2
174: @ 8,24 SAY Q3
175: @ 8,36 SAY Q4
176: @ 10,24 GET Q5 PICTURE '999999'
177: @ 11,24 GET Q6 PICTURE '999999'
178: @ 11,38 GET Q7 PICTURE '999999'
179: @ 12,24 GET Q8 PICTURE '99'
180: @ 13,24 GET Q9

```

```

181: READ
182:
183: IF Q5=-1
184:   CLOSE DATABASES
185:   CLOSE PROCEDURE
186:   RETURN
187: ENDIF
188: *   HEADER CHECK
189:   L=14
190:   ERFLG=0
191:
192: ?? &R
193: IF Q6 < REPTO
194:   L=L+1
195:   @ L,2 SAY "ER010- 'FROM' DATE IS BEFORE THE LAST DATE OF REPORT."
196:   ERFLG=1
197: ENDIF
198:
199: IF Q7 < REPTO
200:   L=L+1
201:   @ L,2 SAY "ER011- 'TO' DATE IS BEFORE THE LAST DATE OF REPORT."
202:   ERFLG=1
203: ENDIF
204:
205: IF ICRHEDK=4 .OR. ICRHEDK=6
206:   IF Q6=REPTO
207:     L=L+1
208:     @ L,2 SAY "ER017- STARTING DATE OF ICR IS EQUAL TO LAST P.I.L."
209:     ERFLG=1
210:   ENDIF
211: ENDIF
212:
213: IF Q6>Q7
214:   L=L+1
215:   @ L,2 SAY "ER012- 'FROM' DATE IS AFTER 'TO' DATE."
216:   ERFLG=1
217: ENDIF
218:
219: IF Q5<Q6
220:   L=L+1
221:   @ L,2 SAY "ER014- ENTRY DATE IS BEFORE THE PERIOD."
222:   ERFLG=1
223: ENDIF
224:
225: IF Q8=0
226:   L=L+1
227:   @ L,2 SAY "ER015- NUMBER OF ENTRY IS 0."
228:   ERFLG=1
229: ENDIF
230:
231: IF ERFLG=1
232:
233:   L=L+3
234:   RES=" "
235:   @ L,15 SAY "&G+"PRESS ANY KEY"
236:   @ L,32 GET RES
237:   READ
238:
239:   LOOP
240: ENDIF

```

```

241: *
242: ANS=" "
243: L=L+1
244: IF ERF LG=0
245: | @ L,5 SAY &Y+ "-" IS EXIT ',' IS RE-INPUT , '0' IS INPUT ENTRY"
246: ENDF
247: DO WHILE .T.
248: | @ L,S7 GET ANS
249: READ
250:
251: | IF ANS<>"-" .AND. ANS<>"." .AND. ANS<>"0"
252: | | LOOP
253: ENDF
254: EXIT
255: ENDDO
256: IF ANS="."
257: | CLOSE DATABASES
258: | CLOSE PROCEDURE
259: | RETURN
260: ENDF
261: IF ANS="."
262: | | LOOP
263: ENDF
264: IF ANS="0"
265: | | EXIT
266: ENDF
267: ENDDO
268:
269: IF ERF LG=1
270: | L= L+1
271: | @ L,1 SAY "ER052- BAD DATA FOR FILE HEADER"
272: | CLOSE DATABASES
273: | CLOSE PROCEDURE
274: | RETURN
275: ENDF
276:
277: SELECT 1
278: * IC FILE
279: APPEND BLANK
280: REPLACE FCLCOD WITH Q1
281: REPLACE FCLNAM WITH Q2
282: REPLACE MBACOD WITH Q3
283: REPLACE MBANAM WITH Q4
284: REPLACE REPNO WITH WREPNO
285: REPLACE ENTDAT WITH Q5
286: REPLACE REPERM WITH Q6
287: REPLACE REPTO WITH Q7
288: REPLACE ACCLNO WITH Q8
289: REPLACE SIGNAT WITH Q9
290: REPLACE ICRHEDK WITH 0
291: REPLACE USRCOD WITH QC
292: REPLACE USRNAM WITH QN
293:
294: SELECT 2
295: WMBA=Q3
296: DO REDICR
297: SELECT 1
298: REPLACE ACCLNO WITH Q8
299: DO SORTBI
300:

```

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301: CLOSE DATABASES  
302: CLOSE PROCEDURE  
303: RETURN

```

1: *****
2: *   HEADER INFORMATION CORRECTION ROUTINE *
3: *****
4: SET PROCEDURE TO ENTICR
5: *PUBLIC Q6,Q7,Q8,WREPNO,WMBA,WORG,WFCL,WDAT,ICRWR
6:
7: CLEAR
8:
9: @ 1,10 SAY &Y+*****
10: @ 2,10 SAY &Y+***** CORRECT IC FILE *****
11: @ 3,10 SAY &Y+***** MBA CODE : " *****
12: @ 7,10 SAY &Y+***** EXIT WHEN BLANK" *****
13: @ 8,11 SAY &Y+*****
14:
15: Q="
16: DO WHILE .T.
17: @ 7,40 GET Q
18: READ
19: IF Q=" "
20: | RETURN
21: | ENDIF
22:
23: IF .NOT. FILE("A_MBANO.DBF")
24: | @ 20,20 SAY &R+"MBA FILE DOES NOT EXIST"
25: | AA=" "
26: | @ 20,65 GET AA
27: | READ
28: | @ 20,20 SAY SPACE(55)
29: | CLOSE DATABASES
30: | CLOSE PROCEDURE
31: | RETURN
32: | ENDIF
33: USE A_MBANO
34: LOCATE FOR MBA=Q
35: IF EOF()
36: | @ 20,20 SAY &R+"MBA CODE("+Q+") DOES NOT EXIST IN MBA FILE"
37: | AA=" "
38: | @ 20,65 GET AA
39: | READ
40: | @ 20,20 SAY SPACE(55)
41: | LOOP
42: | ENDIF
43: MBAC=Q
44: NN = LTRIM(STR(RECNO()))
45: FNAM1="A_HEAD"-NN
46: FNAM2="A_IC"-NN
47: FNAM4="A_MBA"
48: FNAM5="A_BOOK"-NN
49: IF .NOT. FILE("&FNAM1.DBF")
50: | @ 20,20 SAY &R+"THERE IS NO REPORT FOR THIS MBA
51: | AA=" "
52: | @ 20,65 GET AA
53: | READ
54: | @ 20,20 SAY SPACE(55)
55: | LOOP
56: | ENDIF
57: | EXIT
58: | ENDDO
59:
60: *CREATE DUMMY FROM STR_HEAD

```

```

61: SELECT 1
62: USE &FNAM1 ALIAS HD
63: SELECT 2
64: USE &FNAM2 ALIAS II
65: SELECT 3
66: USE &FNAM4 ALIAS MB
67: SELECT 5
68: USE &FNAM5 ALIAS BB
69: LFLG=" "
70: DO WHILE .T.
71: CLEAR
72: ?? &Y
73: @ 1,10 SAY " IC REPORT No. THAT CAN BE CORRECTED : "
74: SELECT 1
75: LOCATE FOR ICRHEDK=0 .AND. AUTHOF=" "
76: IF EOF()
77: AA=" "
78: ?? &W
79: @ 3,15 SAY &W+"THERE IS NO MORE IC REPORT THAT CAN BE CORRECTED" GET AA
80: READ
81: CLOSE DATABASES
82: CLOSE PROCEDURE
83: RETURN
84: ENDIF
85:
86: LL=2
87: DO WHILE .T.
88: LL=LL+1
89: NN=1
90: COL=15
91: DO WHILE NN<=10
92: IF EOF()
93: EXIT
94: ENDIF
95: COL=COL+5
96: @ LL,COL SAY REPNO PICTURE "9999"
97: CONTINUE
98: NN=NN+1
99: ENDDO
100: IF EOF()
101: EXIT
102: ENDIF
103: ENDDO
104:
105: IF LFLG=" "
106: WREPNO=0
107: DO WHILE .T.
108: @ 7,20 SAY "SELECT REPORT No. " GET WREPNO
109: ?? &Y
110: @ 8,20 SAY " ( RETURN TO FARMS MENU WHEN '0' INDICATED )"
111: READ
112: IF WREPNO=0
113: CLOSE DATABASES
114: CLOSE PROCEDURE
115: RETURN
116: ENDIF
117: LOCATE FOR REPNO=WREPNO
118: IF ICRHEDK<>0 .OR. AUTHOF<> "
119: LOOP
120:

```



```

121: | | ENDIF
122: | | | EXIT
123: | | | ENDDO
124: | | ELSE
125: | | @ 7,40 SAY "SELECTED REPORT NO. IS "+STR(WREPNO,2)
126: | | | SELECT 1
127: | | | LOCATE FOR REPNO=WREPNO
128: | | ENDIF
129: | | NREC=RECNO( )
130: | | WMBA=MBACOD
131: | | WORG=USRCOD
132: | | WDAT=ENTDAT
133: | | WFCL=FCLCOD
134: | | STORE FCLCOD TO Q1
135: | | STORE FCLNAM TO Q2
136: | | STORE MBACOD TO Q3
137: | | STORE MBANAM TO Q4
138: | | STORE ENTDAT TO Q5
139: | | STORE REPRM TO Q6
140: | | STORE REPTO TO Q7
141: | | STORE ACCLNO TO Q8
142: | | STORE SIGMAT TO Q9
143: | | STORE ICRHEDK TO Q10
144: | | STORE PILDAT TO Q11
145: | | STORE USRCOD TO QC
146: | | STORE USRNAM TO QN
147: | | ?? &Y
148: | | @ 10,10 SAY "***** CORRECT MENU *****"
149: | | @ 12,10 SAY "
150: | | @ 13,10 SAY "
151: | | @ 14,10 SAY "
152: | | @ 15,10 SAY "
153: | | @ 16,10 SAY "
154: | |
155: | | SELNO=0
156: | | DO WHILE .T.
157: | | | @ 18,10 SAY "
158: | | | READ
159: | | | IF SELNO>4
160: | | | | LOOP
161: | | | ENDIF
162: | | | EXIT
163: | | | ENDDO
164: | |
165: | | LFLG="*"
166: | | DO CASE
167: | | | CASE SELNO=0
168: | | | | LFLG=" "
169: | | | | LOOP
170: | | | CASE SELNO=1
171: | | | | LSTFLG=2
172: | | | | DO DSPICR
173: | | | | LOOP
174: | | | CASE SELNO=2
175: | | | | DO ALLCHK
176: | | | | LOOP
177: | | | CASE SELNO=3
178: | | | | DO CORHED WITH 0
179: | | | | LOOP
180: | | | CASE SELNO=4

```

```

181: DO CORRIGR
182: LOOP
183: ENDCASE
184:
185: ***** CASE 3 *****
186:
187: DO WHILE .T.
188:
189: LOCATE FOR REPNO=WREPNO-1
190:
191: CLEAR
192: ?? &Y
193: @ 2.5 SAY "***** IC HEADER INFORMATION *****"
194: @ 3.5 SAY "*"
195: @ 4.5 SAY "***** FACILITY CODE *****"
196: @ 6.5 SAY "FACILITY CODE : NAME : "
197: @ 7.5 SAY "MBA CODE : NAME : "
198: @ 8.5 SAY "REPORT No. : "+STR(WREPNO.4)
199: @ 9.5 SAY "ENTRY DATE : "
200: @ 10.5 SAY "PERIOD (FROM) : "
201: @ 11.5 SAY "NUMBER OF ENTRY : "
202: @ 12.5 SAY "SIGNATURE : "
203: @ 13.5 SAY " (EXIT WHEN ENTRY DATE IS '-1' )"
204:
205: @ 6.21 SAY Q1
206: @ 6.33 SAY Q2
207: @ 7.21 SAY Q3
208: @ 7.33 SAY Q4
209: @ 9.21 GET Q5 PICTURE '999999'
210: @ 10.21 GET Q6 PICTURE '999999'
211: @ 10.35 GET Q7 PICTURE '999999'
212: @ 11.21 SAY Q8 PICTURE '99'
213: @ 12.21 GET Q9
214: READ
215:
216: ERFLG=0
217: IF Q5=-1
218: | EXIT
219: ENDIF
220:
221: * HEADER CHECK
222: L=13
223:
224: ?? &R
225: IF WREPNO <> 1
226: | IF Q6 < REPTO
227: | | L=L+1
228: | @ L,2 SAY "EROIO- 'FROM' DATE IS BEFORE THE LAST DATE OF REPORT."
229: | ERFLG=1
230: | ENDIF
231:
232: IF Q7 < REPTO
233: | | L=L+1
234: | @ L,2 SAY "EROII- 'TO' DATE IS BEFORE THE LAST DATE OF REPORT."
235: | ERFLG=1
236: | ENDIF
237:
238: IF ICRHEDK=4 .OR. ICRHEDK=6
239: | | IF Q6=REPTO
240: | | | L=L+1

```

```

241: | | | | | @ L,2 SAY "ER017- STARTING DATE OF ICR IS EQUAL TO LAST FIL."
242: | | | | | ERFLG=1
243: | | | | | ENDIF
244: | | | | | ENDIF
245: | | | | | ENDIF
246: | | | | | IF Q6>Q7
247: | | | | | L=L+1
248: | | | | | @ L,2 SAY "ER012- 'FROM' DATE IS AFTER 'TO' DATE."
249: | | | | | ERFLG=1
250: | | | | | ENDIF
251: | | | | |
252: | | | | | IF Q5<Q6
253: | | | | | L=L+1
254: | | | | | @ L,2 SAY "ER014- ENTRY DATE IS BEFORE THE PERIOD."
255: | | | | | ERFLG=1
256: | | | | | ENDIF
257: | | | | |
258: | | | | | LOCATE FOR REPNO=WREPNO+1
259: | | | | | IF .NOT. EOF()
260: | | | | | IF Q6>REPERM .OR. Q7>REPERM
261: | | | | | L=L+1
262: | | | | | @ L,2 SAY "ER060- PERIOD IS AFTER THE NEXT PERIOD"
263: | | | | | ERFLG=1
264: | | | | | ENDIF
265: | | | | | ENDIF
266: | | | | |
267: | | | | | * ENTRY CHECK BY CHANGE DATE
268: | | | | | SELECT 2
269: | | | | | ERFLG1=0
270: | | | | | LOCATE FOR RNO=WREPNO
271: | | | | | NN = 55
272: | | | | | DO WHILE RNO=WREPNO
273: | | | | | IF CORRNO=0
274: | | | | | IF CHGDAT<Q6 .OR. CHGDAT>Q7
275: | | | | | IF NN>50
276: | | | | | L = L+1
277: | | | | | NN = 5
278: | | | | | ENDIF
279: | | | | | ?? &R
280: | | | | | @ L,NN SAY ENO PICTURE '99'
281: | | | | | NN=NN+5
282: | | | | | ERFLG1=1
283: | | | | | ENDIF
284: | | | | | ENDIF
285: | | | | | SKIP
286: | | | | | ENDDO
287: | | | | | ?? &R
288: | | | | | IF ERFLG1=1
289: | | | | | L=L+1
290: | | | | | @ L,7 SAY "... ENTRY NO. (DATE OF CHANGE IS OUT OF PERIOD)"
291: | | | | | ERFLG = 1
292: | | | | | ENDIF
293: | | | | |
294: | | | | | SELECT 1
295: | | | | | IF ERFLG=1
296: | | | | | L=L+3
297: | | | | | RES=" "
298: | | | | | ?? &G
299: | | | | | @ L,15 SAY "PRESS ANY KEY"
300: | | | | | @ L,32 GET RES

```

```

301: READ
302: LOOP
303: ENDIF
304: *
305: ANS=" "
306: L=L+1
307: IF ERFLG=0
308: ?? &Y
309: @ L,5 SAY ":-" IS EXIT ':' IS RE-INPUT '0' IS CORRECT"
310: ENDIF
311: DO WHILE .T.
312: @ L,57 GET ANS
313: READ
314:
315: IF ANS<>"-" .AND. ANS<>":" .AND. ANS<>"0"
316: LOOP
317: ENDIF
318: EXIT
319: ENDDO
320: IF ANS="-"
321: EXIT
322: ENDIF
323: IF ANS=":"
324: LOOP
325: ENDIF
326: IF ANS="0"
327: EXIT
328: ENDIF
329: ENDDO
330: * ----- END CHECK AND INPUT CORRECT DATA-----
331: * ----- START HEADER CHANGE -----
332: IF Q5=-1
333: CLEAR
334: LOOP
335: ENDIF
336: IF ANS="-"
337: CLEAR
338: LOOP
339: ENDIF
340:
341: SELECT 1
342: * IC FILE
343: LOCATE FOR REPNO=WREPNO
344: * REPLACE FCLCOD WITH Q1
345: * REPLACE FCLNAM WITH Q2
346: * REPLACE MBACOD WITH Q3
347: * REPLACE MBANAM WITH Q4
348: REPLACE REPNO WITH WREPNO
349: REPLACE ENTDAT WITH Q5
350: REPLACE REPPRM WITH Q6
351: REPLACE REPTO WITH Q7
352: * REPLACE ACCLNO WITH Q8
353: REPLACE SIGNAT WITH Q9
354: * REPLACE ICRHEDK WITH 0
355: * REPLACE USRCOD WITH QC
356: * REPLACE USRNAM WITH QN
357: *
358: * ICR
359:
360: LOCATE FOR REPNO=WREPNO .AND. ICRHEDK=1

```

```
361: |-----|
362: |   IF EOF( )
363: |   | CLEAR
364: |   | LOOP
365: |   | ENDF
366: |   * REPLACE FCLCOD WITH Q1
367: |   * REPLACE FCLNAM WITH Q2
368: |   * REPLACE MBACOD WITH Q3
369: |   * REPLACE MBANAM WITH Q4
370: |   * REPLACE REPNO WITH WREPNO
371: |   * REPLACE ENTDAT WITH Q5
372: |   * REPLACE REPERM WITH Q6
373: |   * REPLACE REPTO WITH Q7
374: |   * REPLACE ACCLNO WITH Q8
375: |   * REPLACE SIGNAT WITH Q9
376: |   * REPLACE ICRHEDK WITH I
377: |   * REPLACE USRCOD WITH QC
378: |   * REPLACE USRNAM WITH QN
379: |-----| ENDDO
```

```

1:
2: PROCEDURE PILPRT
3:
4: *****
5: * PIL PRINT OUT ROUTINE *
6: *****
7:
8: SELECT 1
9:
10: SET DEVICE TO PRINT
11:
12: @ 5,30 SAY " PHISICAL INVENTORY LISTING"
13: @ 7,11 SAY "+-----+
14: @ 7,61 SAY "-----+
15: @ 8,11 SAY " ORGANIZATION"
16: @ 8,61 SAY " DATE OF PIL"
17: @ 8,75 SAY PILDAT PICTURE '99/99/99'
18: @ 8,111 SAY "
19: @ 9,11 SAY " NAME"
20: @ 9, 27 SAY USRNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
21: @ 9, 61 SAY "
22: @ 9,111 SAY "
23: @ 10,11 SAY " ADDRESS"
24: @ 10, 27 SAY USRPLC PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
25: @ 10, 61 SAY "REPORT NO."
26: @ 10, 74 SAY REPNO PICTURE '9999'
27: @ 10,111 SAY "
28: @ 11, 11 SAY " FACILITY"
29: @ 11, 27 SAY FCLNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
30: @ 11, 61 SAY "
31: @ 11,111 SAY "
32: @ 12, 11 SAY " MATERIAL BALANCE AREA"
33: @ 12, 39 SAY MBANAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
34: @ 12, 61 SAY "SIGNATURE"
35: @ 12, 74 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
36: @ 12,111 SAY "
37: @ 13,11 SAY "+-----+
38: @ 13,61 SAY "-----+
39: @ 14, 11 SAY " ORGANIZATION|FACILITY| MBA |DATE OF PIL|REPORT NO.|"
40: @ 14, 63 SAY "NUMBER OF ENTRY|SIGNATURE"
41: @ 14,108 SAY " |"
42: @ 15, 11 SAY "+-----+
43: @ 15, 63 SAY "-----+
44: @ 16, 11 SAY "
45: @ 16, 16 SAY USRCOD PICTURE 'XXXX'
46: @ 16, 24 SAY "
47: @ 16, 26 SAY FCLCOD PICTURE 'XXXX'
48: @ 16, 33 SAY "
49: @ 16, 34 SAY MBACOD PICTURE 'XXXX'
50: @ 16, 39 SAY "
51: @ 16, 41 SAY PILDAT PICTURE '99/99/99'
52: @ 16, 51 SAY "
53: @ 16, 53 SAY REPNO PICTURE '9999'
54: @ 16, 62 SAY "
55: @ 16, 69 SAY ACCLNO PICTURE '99'
56: @ 16, 78 SAY "
57: @ 16, 79 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
58: @ 16,108 SAY "
59: @ 16,110 SAY ICRHEDK PICTURE '9'
60: @ 16,111 SAY "

```

```

61: @ 17,11 SAY "-----"
62: @ 17,61 SAY "-----"
63: @ 18,11 SAY " 1 2 3 4 5 6 7 8 9"
64: @ 18,62 SAY "10 11 12 13 14 15 16 17 18 19"
65: @ 19,11 SAY "-----"
66: @ 19,62 SAY "-----"
67:
68: SELECT 3
69: COPY TO WK FOR PILD02=HR->REPNO
70: USE WK
71: SORT ON PILD05,PILD10,PILD14 TO WW
72: USE WW
73: DO WHILE .NOT. EOF()
74:
75: IF PILD03=0
76:   SKIP
77:   LOOP
78: ENDIF
79:
80: STORE 19 TO L
81: DO WHILE L<41
82:   STORE L+1 TO L
83:   @ L, 11 SAY " "
84:   @ L, 12 SAY PILD01 PICTURE 'XXXX'
85:   @ L, 17 SAY " "
86:   @ L, 18 SAY PILD02 PICTURE '9999'
87:   @ L, 23 SAY " "
88:   @ L, 24 SAY PILD03 PICTURE '99'
89:   @ L, 27 SAY " "
90:   @ L, 29 SAY PILD04 PICTURE 'X'
91:   @ L, 30 SAY " "
92:   @ L, 31 SAY PILD05 PICTURE 'X'
93:   @ L, 33 SAY " "
94:   @ L, 34 SAY PILD06 PICTURE 'XXXXXXXX'
95:   @ L, 43 SAY " "
96:   @ L, 44 SAY PILD07 PICTURE '9999'
97:   @ L, 49 SAY " "
98:   @ L, 50 SAY PILD08 PICTURE 'XXXX'
99:   @ L, 55 SAY " "
100:  @ L, 56 SAY PILD09 PICTURE 'XXXX'
101:  @ L, 61 SAY " "
102:  @ L, 62 SAY PILD10 PICTURE 'X'
103:  @ L, 64 SAY " "
104:  @ L, 65 SAY PILD11 PICTURE '99999999.'
105:  @ L, 75 SAY " "
106:  @ L, 76 SAY PILD12 PICTURE 'X'
107:  @ L, 78 SAY " "
108:  @ L, 80 SAY PILD13 PICTURE '99999999.'
109:  @ L, 89 SAY " "
110:  @ L, 90 SAY PILD14 PICTURE 'X'
111:  @ L, 92 SAY " "
112:  @ L, 93 SAY PILD15 PICTURE 'X'
113:  @ L, 95 SAY " "
114:  @ L, 96 SAY PILD16 PICTURE 'X'
115:  @ L, 98 SAY " "
116:  @ L, 99 SAY PILD17 PICTURE '9999'
117:  @ L,104 SAY " "
118:  @ L,105 SAY PILD18 PICTURE '99'
119:  @ L,108 SAY " "
120:  @ L,110 SAY PILD19 PICTURE '9'

```

```

121: @ L,111 SAY "!"
122:
123: SKIP
124: IF EOF() .OR. PILD02<>HH->REPNO .OR. L>=41
125: STORE L+1 TO L
126: @ L,11 SAY "-----"
127: @ L,62 SAY "-----"
128: STORE L+1 TO M
129: STORE 50 TO L
130: ENDIF
131:
132: ENDDO
133: STORE M TO L
134: STORE L+2 TO L
135: @ L, 3 SAY " 1: MBA"
136: @ L,33 SAY " 2: REPORT NO."
137: @ L,63 SAY " 3: ENTRY NO."
138: @ L,93 SAY " 4: CONTINUATION"
139: STORE L+1 TO L
140: @ L, 3 SAY " 5: KWP CODE"
141: @ L,33 SAY " 6: NAME/NO. OF BATCH"
142: @ L,63 SAY " 7: NUMBER OF ITEMS IN BATCH"
143: @ L,93 SAY " 8: MATERIAL DESCRIPTION"
144: STORE L+1 TO L
145: @ L, 3 SAY " 9: ORIGIN OF MATERIAL"
146: @ L,33 SAY "10: ELEMENT CODE"
147: @ L,63 SAY "11: WEIGHT OF ELEMENT"
148: @ L,93 SAY "12: UNIT OF WEIGHT"
149: STORE L+1 TO L
150: @ L, 3 SAY "13: WEIGHT OF FISSILE ISOTOPE"
151: @ L,33 SAY "14: ISOTOPE CODE"
152: @ L,63 SAY "15: MEASURE BASIS"
153: @ L,93 SAY "16: CONSCIE NOTE"
154: STORE L+1 TO L
155: @ L, 3 SAY "17: REPORT NO.(CORRECTION TO)"
156: @ L,33 SAY "18: ENTRY NO(CORRECTION TO)"
157: @ L,63 SAY "19: TYPE"
158: IF EOF().OR. PILD02<>HH->REPNO
159: EJECT
160: LOOP
161: ENDIF
162: EJECT
163:
164: SELECT 1
165:
166: @ 5,30 SAY " PHISICAL INVENTORY LISTING"
167: @ 7,11 SAY "-----"
168: @ 7,61 SAY "-----"
169: @ 8,11 SAY " ORGANIZATION"
170: @ 8,61 SAY " DATE OF PIL"
171: @ 8,75 SAY PILDAT PICTURE '99/99/99'
172: @ 8,111 SAY "-----"
173: @ 9,11 SAY " NAME"
174: @ 9, 27 SAY USRNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
175: @ 9, 61 SAY "-----"
176: @ 9,111 SAY "-----"
177: @ 10,11 SAY " ADDRESS"
178: @ 10, 27 SAY USRPLC PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
179: @ 10, 61 SAY " REPORT NO."
180: @ 10, 74 SAY HH->REPNO PICTURE '9999'

```



```

181: @ 10,111 SAY " | "
182: @ 11, 11 SAY " | FACILITY"
183: @ 11, 27 SAY FCLNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
184: @ 11, 61 SAY " | "
185: @ 11,111 SAY " | "
186: @ 12, 11 SAY " | MATERIAL BALANCE AREA"
187: @ 12, 39 SAY MEANAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
188: @ 12, 61 SAY " | SIGNATURE"
189: @ 12, 74 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
190: @ 12,111 SAY " | "
191: @ 13,11 SAY " | "
192: @ 13,61 SAY " | "
193: @ 14, 11 SAY " | ORGANIZATION|FACILITY| MBA |DATE OF PIL|REPORT NO.|"
194: @ 14, 63 SAY "NUMBER OF ENTRY|SIGNATURE"
195: @ 14,108 SAY " | "
196: @ 15, 11 SAY " | "
197: @ 15, 63 SAY " | "
198: @ 16, 11 SAY " | "
199: @ 16, 16 SAY USRCOD PICTURE 'XXXXX'
200: @ 16, 24 SAY " | "
201: @ 16, 26 SAY FCLCOD PICTURE 'XXXXX'
202: @ 16, 33 SAY " | "
203: @ 16, 34 SAY MBACOD PICTURE 'XXXXX'
204: @ 16, 39 SAY " | "
205: @ 16, 41 SAY PILDAT PICTURE '99/99/99'
206: @ 16, 51 SAY " | "
207: @ 16, 53 SAY REPNO PICTURE '99999'
208: @ 16, 62 SAY " | "
209: @ 16, 69 SAY ACCLNO PICTURE '99'
210: @ 16, 78 SAY " | "
211: @ 16, 79 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXX'
212: @ 16,108 SAY " | "
213: @ 16,110 SAY ICRHEDK PICTURE '9'
214: @ 16,111 SAY " | "
215: @ 17,11 SAY " | "
216: @ 17,61 SAY " | "
217: @ 18,11 SAY " | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | "
218: @ 18,62 SAY " | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | "
219: @ 19,11 SAY " | "
220: @ 19,62 SAY " | "
221: SELECT 3
222:
223: ENDDO
224:
225: STORE 0 TO D
226: DO WHILE D<500
227: | STORE D+1 TO D
228: ENDDO
229:
230: SET DEVICE TO SCREEN
231: @ 22,25 SAY &W;"PRINT COMPLETE
232: RETURN
233:
234: #####
235: #####
236: #####
237: #####
238: #####
239: * MBR PRINT OUT ROUTINE ( MBRPRT.PRG ) *
240: #####

```

```

241: SELECT 1
242:
243:
244: SET DEVICE TO PRINT
245:
246: @ 5,30 SAY " MATERIAL BALANCE REPORT"
247: @ 7,11 SAY "-----+-----"
248: @ 7,61 SAY "-----+-----"
249: @ 8,11 SAY " ORGANIZATION"
250: @ 8,56 SAY " PERIOD COVERED BY PERIOD"
251: @ 8,100 SAY "-----"
252: @ 9,11 SAY " NAME"
253: @ 9, 27 SAY USRNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
254: @ 9, 56 SAY "-----"
255: @ 9, 77 SAY "FROM"
256: @ 9, 82 SAY REPFM PICTURE '99/99/99'
257: @ 9,100 SAY "-----"
258: @ 10,11 SAY " ADDRESS"
259: @ 10,27 SAY USRPLC PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
260: @ 10,56 SAY "-----"
261: @ 10,77 SAY "TO"
262: @ 10,82 SAY REPTO PICTURE '99/99/99'
263: @ 10,100 SAY "-----"
264: @ 11, 11 SAY " FACILITY"
265: @ 11, 27 SAY FCLNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
266: @ 11, 56 SAY " REPORT NO."
267: @ 11, 70 SAY REPNO PICTURE '9999'
268: @ 11,100 SAY "-----"
269: @ 12, 11 SAY " MATERIAL BALANCE AREA"
270: @ 12, 37 SAY MBANAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
271: @ 12, 56 SAY " SIGNATURE"
272: @ 12, 69 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
273: @ 12,100 SAY "-----"
274: @ 13,11 SAY "-----"
275: @ 13,61 SAY "-----+-----"
276: @ 14,11 SAY " ORGANIZATION FACILITY MBA PERIOD COVERED BY REPORT"
277: @ 14,63 SAY " REPORT NUMBER SIGNATURE"
278: @ 14,97 SAY "-----"
279: @ 15,11 SAY " NO. OF ENTRY"
280: @ 15,63 SAY "-----"
281: @ 15,97 SAY "-----"
282: @ 16,11 SAY "-----"
283: @ 16,63 SAY "-----"
284: @ 17,11 SAY "-----"
285: @ 17,16 SAY USRCD PICTURE 'XXXX'
286: @ 17,24 SAY "-----"
287: @ 17,26 SAY FCLCOD PICTURE 'XXXX'
288: @ 17,33 SAY "-----"
289: @ 17,34 SAY MBACOD PICTURE 'XXXX'
290: @ 17,38 SAY "-----"
291: @ 17,40 SAY REPFM PICTURE '99/99/99'
292: @ 17,50 SAY "-----"
293: @ 17,52 SAY REPTO PICTURE '99/99/99'
294: @ 17,63 SAY "-----"
295: @ 17,65 SAY REPNO PICTURE '9999'
296: @ 17,70 SAY "-----"
297: @ 17,74 SAY ACCLNO PICTURE '99'
298: @ 17,79 SAY "-----"
299: @ 17,80 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
300: @ 17,97 SAY "-----"

```

```

301: @ 17,99 SAY ICRHEDK PICTURE '9'
302: @ 17,100 SAY "!"
303: @ 18,11 SAY "-----"
304: @ 18,61 SAY "1 2 3 4 5 6 7 8"
305: @ 19,11 SAY "1 2 3 4 5 6 7 8"
306: @ 19,62 SAY "9 10 11 12 13 14 15"
307: @ 20,11 SAY "-----"
308: @ 20,62 SAY "-----"
309:
310: SELECT 4
311: LOCATE FOR MBRD02=HH->REPNO
312: DO WHILE MBRD02=HH->REPNO .AND. .NOT. EOF()
313: STORE 20 TO L
314: DO WHILE L<40
315: STORE L+1 TO L
316: @ L, 11 SAY "!"
317: @ L, 12 SAY MBRD01 PICTURE 'XXXX'
318: @ L, 18 SAY "!"
319: @ L, 19 SAY MBRD02 PICTURE '9999'
320: @ L, 25 SAY "!"
321: @ L, 26 SAY MBRD03 PICTURE '99'
322: @ L, 30 SAY "!"
323: @ L, 31 SAY MBRD04 PICTURE 'X'
324: @ L, 33 SAY "!"
325: @ L, 34 SAY MBRD05 PICTURE 'XXXX'
326: @ L, 40 SAY "!"
327: @ L, 41 SAY MBRD06 PICTURE 'XXXX'
328: @ L, 47 SAY "!"
329: @ L, 48 SAY MBRD07 PICTURE 'X'
330: @ L, 51 SAY "!"
331: @ L, 52 SAY MBRD08 PICTURE '9999999.'
332: @ L, 62 SAY "!"
333: @ L, 63 SAY MBRD09 PICTURE 'X'
334: @ L, 66 SAY "!"
335: @ L, 67 SAY MBRD10 PICTURE '9999999.'
336: @ L, 77 SAY "!"
337: @ L, 78 SAY MBRD11 PICTURE 'X'
338: @ L, 81 SAY "!"
339: @ L, 82 SAY MBRD12 PICTURE 'X'
340: @ L, 85 SAY "!"
341: @ L, 86 SAY MBRD13 PICTURE '9999'
342: @ L, 92 SAY "!"
343: @ L, 93 SAY MBRD14 PICTURE '99'
344: @ L, 97 SAY "!"
345: @ L, 99 SAY MBRD15 PICTURE '9'
346: @ L,100 SAY "!"
347:
348: SKIP
349: IF EOF() .OR. MBRD02<>HH->REPNO .OR. L=40
350: STORE L+1 TO L
351: @ L,11 SAY "-----"
352: @ L,62 SAY "-----"
353: STORE L TO M
354: STORE 50 TO L
355: ENDIF
356:
357: ENDDO
358: STORE M TO L
359: STORE L+2 TO L
360: @ L, 3 SAY " I: MBA"

```

```

361: @ L,33 SAY " 2: REPORT NO."
362: @ L,63 SAY " 3: ENTRY NO."
363: @ L,93 SAY " 4: CONTINUATION"
364: STORE L+1 TO L
365: @ L, 3 SAY " 5: ENTRY NAME"
366: @ L,33 SAY " 6: ORIGIN OF MATERIAL"
367: @ L,63 SAY " 7: ELEMENT CODE"
368: @ L,93 SAY " 8: WEIGHT OF ELEMENT"
369: STORE L+1 TO L
370: @ L, 3 SAY " 9: UNIT OF WEIGHT"
371: @ L,33 SAY "10: WEIGHT OF FISSILE ISOTOPE"
372: @ L,63 SAY "11: ISOTOPE CODE"
373: @ L,93 SAY "12: CONSCISE NOTE"
374: STORE L+1 TO L
375: @ L, 3 SAY "13: REPORT NO.(CORRECTION TO)"
376: @ L,33 SAY "14: ENTRY NO(CORRECTION TO)"
377: @ L,63 SAY "15: TYPE"
378: IF EOF().OR. MBRD02<>HH->REPNO
379: | EJECT
380: | LOOP
381: | ENDIF
382:
383: SELECT 1
384: EJECT
385: @ 5,30 SAY " MATERIAL BALANCE REPORT"
386: @ 7,11 SAY "-----"
387: @ 7,61 SAY "-----"
388: @ 8,11 SAY " ORGANIZATION"
389: @ 8,56 SAY " PERIOD COVERED BY PERIOD"
390: @ 8,100 SAY "-----"
391: @ 9,11 SAY " NAME"
392: @ 9, 27 SAY USRNM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
393: @ 9, 56 SAY "-----"
394: @ 9, 77 SAY "FROM"
395: @ 9, 82 SAY REPFM PICTURE '99/99/99'
396: @ 9,100 SAY "-----"
397: @ 10,11 SAY " ADDRESS"
398: @ 10,27 SAY USRPLC PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
399: @ 10,56 SAY "-----"
400: @ 10,77 SAY "TO"
401: @ 10,82 SAY REPTO PICTURE '99/99/99'
402: @ 10,100 SAY "-----"
403: @ 11, 11 SAY " FACILITY"
404: @ 11, 27 SAY FCLNAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
405: @ 11, 56 SAY "REPORT NO."
406: @ 11, 70 SAY REPNO PICTURE '9999'
407: @ 11,100 SAY "-----"
408: @ 12, 11 SAY " MATERIAL BALANCE AREA"
409: @ 12, 37 SAY MBANAM PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
410: @ 12, 56 SAY "SIGNATURE"
411: @ 12, 69 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXXXXXXX'
412: @ 12,100 SAY "-----"
413: @ 13,11 SAY "-----"
414: @ 13,61 SAY "-----"
415: @ 14,11 SAY " ORGANIZATION|FACILITY|MBA |PERIOD COVERED BY REPORT"
416: @ 14,63 SAY " |REPORT|NUMBER |SIGNATURE"
417: @ 14,97 SAY " |"
418: @ 15,11 SAY " |"
419: @ 15,63 SAY " NO. |OF ENTRY|"
420: @ 15,97 SAY " |"

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```

421: @ 16,11 SAY "-----"
422: @ 16,63 SAY "-----"
423: @ 17,11 SAY "-----"
424: @ 17,16 SAY USRCOD PICTURE 'XXXX'
425: @ 17,24 SAY "-----"
426: @ 17,26 SAY FCLCOD PICTURE 'XXXX'
427: @ 17,33 SAY "-----"
428: @ 17,34 SAY MBACOD PICTURE 'XXXX'
429: @ 17,38 SAY "-----"
430: @ 17,40 SAY REPRFM PICTURE '99/99/99'
431: @ 17,50 SAY "-----"
432: @ 17,52 SAY REPTO PICTURE '99/99/99'
433: @ 17,63 SAY "-----"
434: @ 17,65 SAY REPNO PICTURE '9999'
435: @ 17,70 SAY "-----"
436: @ 17,74 SAY ACCLNO PICTURE '99'
437: @ 17,79 SAY "-----"
438: @ 17,80 SAY SIGNAT PICTURE 'XXXXXXXXXXXXXXXXXX'
439: @ 17,97 SAY "-----"
440: @ 17,99 SAY ICRHEDK PICTURE '9'
441: @ 17,100 SAY "-----"
442: @ 18,11 SAY "-----"
443: @ 18,61 SAY "-----"
444: @ 19,11 SAY "1 2 3 4 5 6 7 8"
445: @ 19,62 SAY "9 10 11 12 13 14 15"
446: @ 20,11 SAY "-----"
447: @ 20,62 SAY "-----"
448: SELECT 4
449: ENDDO
450: ENDDO
451: STORE 0 TO D
452: DO WHILE D<500
453: DO WHILE D<500
454: STORE D+1 TO D
455: ENDDO
456: ENDDO
457: SET DEVICE TO SCREEN
458: @ 22,25 SAY &W*"PRINT COMPLETE"
459: RETURN
460:
461: #####
462: PROCEDURE ICRCRT
463: #####
464: *****
465: * OUTPUT IC-REPORT ONSCREEN *
466: *****
467: PARAMETERS WREPNO,MO
468:
469: * HEADER INFORMATION
470:
471: SELECT 1
472: CLEAR
473: ?? &Y
474: @ 2,5 SAY "*****"
475: IF MO=1
476: @ 3,5 SAY " IC HEADER INFORMATION *****"
477: ELSE
478: @ 3,5 SAY " ICR HEADER INFORMATION *****"
479: ENDIF
480: @ 4,5 SAY "*****"

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```

481: @ 6,5 SAY "ORGANOZATION CODE : " NAME : "
482: @ 7,5 SAY "FACILITY CODE : " NAME : "
483: @ 8,5 SAY "MBA CODE : " NAME : "
484: @ 9,5 SAY "REPORT No. : "
485: @ 10,5 SAY "ENTRY DATE : "
486: @ 11,5 SAY "PERIOD (FROM) : " (TO) : "
487: @ 12,5 SAY "NUMBER OF ENTRY : "
488: @ 13,5 SAY "SIGNATURE : "
489: ?? &W
490: @ 6,24 SAY QC
491: @ 6,36 SAY QN
492: @ 7,24 SAY Q1
493: @ 7,36 SAY Q2
494: @ 8,24 SAY Q3
495: @ 8,36 SAY Q4
496: @ 9,30 SAY STR(REPNO,4)
497: @ 10,30 SAY ENTDAT PICTURE "@D"
498: @ 11,20 SAY REPRM PICTURE "@D"
499: @ 11,36 SAY REPTO PICTURE "@D"
500: @ 12,30 SAY ACCLNO PICTURE '99'
501: @ 13,30 SAY SIGNAT
502: ?? &G
503: ANS=" "
504: @ 15,15 SAY "PRESS ANY KEY " GET ANS
505: READ
506:
507: * IC-REPORT LISTING
508: NOENTR=ACCLNO
509:
510: IF ICRHEDK=0
511: | SELECT 2
512: | ELSE
513: | SELECT 5
514: ENDIF
515:
516: CNTETR=1
517: DO WHILE CNTETR<=NOENTR
518: | CLEAR
519:
520: ?? &Y
521: IF MO=1
522: | @ 1,2 SAY "*****" IC ENTRY INFORMATION [ REPORT No.="
523: | ELSE ICR ENTRY INFORMATION [ REPORT No.="
524: | @ 1,2 SAY "*****" ICR
525: ENDIF
526: @ 1,58 SAY WREPNO PICTURE '999'
527: @ 1,62 SAY " J *****"
528: @ 3,2 SAY " DATE TYPE KMP NAME / MATE- .....ACCOUNTANCY DATA..... CORR-TO "
529: @ 4,2 SAY "ENTRY OF OF CODE NUMBER RIAL OF
530: @ 5,2 SAY " INVENT INVT ELEM- WEIGHT UNIT WEIGHT ISO. REP ENT"
531: @ 6,2 SAY " NO. CHANGE CHNG FROM TO BATCH DESC.MENT OF ELEM. OF F.I.CODE NO. NO."
532: @ 7,2 SAY " -- -----"
533:
534: L=9
535: ?? &W
536: DO WHILE L<=21 .AND. CNTETR<=NOENTR
537: | LOCATE FOR RNO=WREPNO .AND. ENO=CNTETR
538: | @ L,3 SAY CNTETR PICTURE '99'
539: | @ L,7 SAY CHGDAT PICTURE '999999'
540:

```

```

541: ----- @ L,15 SAY CHGTYP
542: ----- @ L,18 SAY CNTRYF
543: ----- @ L,23 SAY CNTRYT
544: ----- @ L,28 SAY KMP
545: ----- @ L,30 SAY BATNO
546: ----- @ L,39 SAY MATDSC
547: ----- @ L,45 SAY ACCECD
548: ----- @ L,48 SAY ACCEWT PICTURE '9999999.'
549: ----- @ L,58 SAY ACCUNT
550: ----- @ L,61 SAY ACCRIWT PICTURE '99999999.'
551: ----- @ L,71 SAY ACCICD
552: ----- @ L,74 SAY CORRNG PICTURE '99'
553: ----- @ L,78 SAY CORRENO PICTURE '99'
554: -----
555: ----- L=L+1
556: ----- CNTETR=CNTETR+1
557: ----- ENDDO
558: ----- ?? &G
559: ----- @ 23,20 SAY "PRESS ANY KEY"
560: ----- ANS=" "
561: ----- @ 23,37 GET ANS
562: ----- READ
563: ----- ENDDO
564: ----- RETURN
565: -----
566: ----- *#####
567: ----- *#####
568: ----- *#####
569: ----- PROC PILCRT
570: ----- *#####
571: -----
572: ----- SELECT 1
573: -----
574: ----- WREPNO=HH->REPNO
575: ----- WACNO=HH->ACCLNO
576: ----- CLEAR
577: ----- ?? &Y
578: ----- @ 2,5 SAY "#####
579: ----- @ 3,5 SAY "#####
580: ----- @ 4,5 SAY "#####
581: ----- @ 6,5 SAY "ORGANOZATION CODE :
582: ----- @ 7,5 SAY "FACILITY CODE :
583: ----- @ 8,5 SAY "MBA CODE :
584: ----- @ 9,5 SAY "REPORT No.
585: ----- @ 10,5 SAY "ENTRY DATE
586: ----- @ 11,5 SAY "DATE OF PIL
587: ----- @ 12,5 SAY "NUMBER OF ENTRY
588: ----- @ 13,5 SAY "SIGNATURE
589: ----- ?? &W
590: ----- @ 6,24 SAY QC
591: ----- @ 6,36 SAY QN
592: ----- @ 7,24 SAY Q1
593: ----- @ 7,36 SAY Q2
594: ----- @ 8,24 SAY Q3
595: ----- @ 8,36 SAY Q4
596: ----- @ 9,30 SAY REPNO PICTURE '9999'
597: ----- @ 10,30 SAY ENTDAT PICTURE "@D"
598: ----- @ 11,30 SAY PILDAT PICTURE "@D"
599: ----- @ 12,30 SAY ACCLNO PICTURE '99'
600: ----- @ 13,30 SAY SIGNAT

```

```

601: ?? &G
602: @ 15,15 SAY "PRESS ANY KEY"
603: Q=" "
604: @ 15,32 GET Q
605: READ
606:
607: SELECT 3
608: COPY TO WK FOR PILD02=HH->REPNO
609: USE WK
610: SORT ON PILD05,PILD10,PILD14 TO WW
611: USE WW
612: DO WHILE .NOT. EOF()
613:
614: CLEAR
615:
616: ?? &Y
617: @ 1,2 SAY "***** PILD ENTRY INFORMATION [ REPORT No.="
618: @ 1,58 SAY WREPNO PICTURE '999'
619: @ 1,62 SAY " ] *****"
620: @ 3,1 SAY "ENT KMP NAME/ NO.OF MATE- ORIGIN ELE- WT. UNIT WT. ISO. MEASU- CORR-TO"
621: @ 4,1 SAY "-RY NO.OF ITEMS RIAL OF OF OF REMENT REP ENT"
622: @ 5,1 SAY "NO. CODE BATCH IN DESC- MATE- ELE- WET. F.I. CODE BASIS NO. NO."
623: @ 6,1 SAY " BATCH RIPT. RIAL CODE MENT"
624: @ 7,1 SAY " --"
625:
626: L=9
627: ?? &W
628: DO WHILE L<23 .AND. .NOT. EOF().AND. PILD02=HH->REPNO
629: IF PILD03=0
630: | SKIP
631: | LOOP
632: ENDIF
633: @ L, 2 SAY PILD03 PICTURE '99'
634: @ L, 5 SAY PILD05 PICTURE 'X'
635: @ L,10 SAY PILD06 PICTURE 'XXXXXXXX'
636: @ L,19 SAY PILD07 PICTURE '9999'
637: @ L,24 SAY PILD08 PICTURE 'XXXX'
638: @ L,30 SAY PILD09 PICTURE 'XXXX'
639: @ L,37 SAY PILD10 PICTURE 'X'
640: @ L,40 SAY PILD11 PICTURE '99999999.'
641: @ L,50 SAY PILD12 PICTURE 'X'
642: @ L,53 SAY PILD13 PICTURE '99999999.'
643: @ L,63 SAY PILD14 PICTURE 'X'
644: @ L,67 SAY PILD15 PICTURE 'X'
645: @ L,72 SAY PILD17 PICTURE '9999'
646: @ L,78 SAY PILD18 PICTURE '99'
647: L=L+1
648:
649: SKIP
650:
651: ENDDO
652: ?? &G
653: @ 23,20 SAY "PRESS ANY KEY"
654: QQ=" "
655: @ 23,37 GET QQ
656: READ
657:
658: ENDDO
659:
660: RETURN

```



```

661: #####
662: #####
663: #####
664: #####
665: PROC MBRCRT
666: #####
667: #####
668: SELECT 1
669:
670: WREPNO=HH->REPNO
671: WACNO=HH->ACCLNO
672: CLEAR
673: ?? &Y
674: @ 2,5 SAY "*****"
675: @ 3,5 SAY "*"
676: @ 4,5 SAY "*****"
677: @ 6,5 SAY "ORGANOZATION CODE : "
678: @ 7,5 SAY "FACILITY CODE : "
679: @ 8,5 SAY "MBA CODE : "
680: @ 9,5 SAY "REPORT No. : "
681: @ 10,5 SAY "ENTRY DATE : "
682: @ 11,5 SAY "PERIOD (FROM) : "
683: @ 12,5 SAY "NUMBER OF ENTRY : "
684: @ 13,5 SAY "SIGNATURE : "
685: ?? &W
686: @ 6,24 SAY QC
687: @ 6,36 SAY QN
688: @ 7,24 SAY Q1
689: @ 7,36 SAY Q2
690: @ 8,24 SAY Q3
691: @ 8,36 SAY Q4
692: @ 9,30 SAY STR(REPNO,4)
693: @ 10,30 SAY ENTDAT PICTURE "@D"
694: @ 11,20 SAY REPFEM PICTURE "@D"
695: @ 11,36 SAY REPTO PICTURE "@D"
696: @ 12,30 SAY ACCLNO PICTURE '99'
697: @ 13,30 SAY SIGNAL
698: ?? &G
699: ANS=" "
700: @ 15,15 SAY "PRESS ANY KEY " GET ANS
701: READ
702:
703: SELECT 4
704: LOCATE FOR MBRD02=HH->REPNO
705:
706: DO WHILE .NOT. EOF() .AND. MBRD02=HH->REPNO
707:
708: CLEAR
709:
710: ?? &Y
711: @ 1,2 SAY "*****"
712: @ 1,58 SAY WREPNO PICTURE '999'
713: @ 1,62 SAY " J *****"
714: @ 3,1 SAY " ENTRY ORIGIN MBR ENTRY INFORMATION [ REPORT No.="
715: @ 4,1 SAY " OF ELEMENT WEIGHT OF UNIT WEIGHT OF ISO. CORR-TO"
716: @ 5,1 SAY " NAME MATERIAL CODE ELEMENT WEIGHT OF F.I. REP ENT"
717: @ 7,1 SAY " ----"
718:
719: L=9
720: ?? &W

```

```

721: DO WHILE L<19 .AND. .NOT. EOF() .AND. MBRD02=HH->REPNO
722: @ L, 4 SAY MBRD05 PICTURE 'XXXX'
723: @ L, 13 SAY MBRD06 PICTURE 'XXXX'
724: @ L, 25 SAY MBRD07 PICTURE 'X'
725: @ L, 31 SAY MBRD08 PICTURE '99999999'
726: @ L, 45 SAY MBRD09 PICTURE 'X'
727: @ L, 51 SAY MBRD10 PICTURE '99999999'
728: @ L, 64 SAY MBRD11 PICTURE 'X'
729: @ L, 70 SAY MBRD13 PICTURE '9999'
730: @ L, 75 SAY MBRD14 PICTURE '99'
731: L=L+1
732: -----
733: SKIP
734: -----
735: ENDDO
736: ?? &G
737: @ 23,20 SAY "PRESS ANY KEY"
738: QQ=" "
739: @ 23,37 GET QQ
740: READ
741: -----
742: ENDDO
743: RETURN
744:

```

```

1: PROCEDURE IOPRT
2:
3: *****
4: * I/O TRANSFER LIST PRINT OUT ROUTINE *****
5: * 1986/10/04 *
6: *****
7:
8: GOTO TOP
9:
10: SET DEVICE TO PRINT
11: @ 1,30 SAY " INPUT OUTPUT TRANSFER LIST |"
12: @ 3,40 SAY "PERIOD (FROM) : "
13: @ 3,56 SAY PRDF PICTURE '99/99/99'
14: @ 4,40 SAY " (TO) : "
15: @ 4,56 SAY PRDT PICTURE '99/99/99'
16:
17: @ 6, 1 SAY "-----"
18: @ 6,66 SAY "ELEM-|-----"
19: @ 7, 1 SAY "ISO-|-----"
20: @ 7,66 SAY "KMP| MENT|-----"
21: @ 8, 1 SAY "ISO-|-----"
22: @ 8,66 SAY "TOPE|-----"
23: @ 9, 1 SAY "CODE|-----"
24: @ 9,66 SAY "CODE|-----"
25: @ 10, 1 SAY "-----"
26: @ 10,66 SAY "-----"
27:
28: STORE 11 TO L
29: SKIP
30: DO WHILE .NOT. EOF()
31:
32: @ L, 1 SAY " |"
33: @ L, 3 SAY KMP PICTURE 'X'
34: @ L, 5 SAY " |"
35: @ L, 8 SAY ECD PICTURE 'X'
36: @ L, 10 SAY " |"
37: @ L, 11 SAY ETR PICTURE '99,999,999'
38: @ L, 21 SAY " |"
39: @ L, 22 SAY ERF PICTURE '99,999,999'
40: @ L, 32 SAY " |"
41: @ L, 33 SAY ENP PICTURE '99,999,999'
42: @ L, 43 SAY " |"
43: @ L, 44 SAY ESF PICTURE '99,999,999'
44: @ L, 54 SAY " |"
45: @ L, 55 SAY ELN PICTURE '99,999,999'
46: @ L, 65 SAY " |"
47: @ L, 68 SAY ICD PICTURE 'X'
48: @ L, 70 SAY " |"
49: @ L, 71 SAY ITR PICTURE '99,999,999'
50: @ L, 81 SAY " |"
51: @ L, 82 SAY IRF PICTURE '99,999,999'
52: @ L, 92 SAY " |"
53: @ L, 93 SAY INP PICTURE '99,999,999'
54: @ L,103 SAY " |"
55: @ L,104 SAY ISF PICTURE '99,999,999'
56: @ L,114 SAY " |"
57: @ L,115 SAY ILN PICTURE '99,999,999'
58: @ L,125 SAY " |"
59:
60: SKIP

```



```

121: ENDDO
122: @ 23,20 SAY &G+"PRESS ANY KEY"
123: QQ=" "
124: @ 23,34 GET QQ
125: READ
126:
127: GOTO TOP
128: DO WHILE .NOT.EOF()
129:   CLEAR
130:
131:   ?? &Y
132:   @ 1,10 SAY "      INPUT OUTPUT TRANSFER LIST"
133:   @ 3,40 SAY "PERIOD (FROM) : "
134:   @ 3,56 SAY PRDF PICTURE '99/99/99'
135:   @ 4,40 SAY " (TO) : "
136:   @ 4,56 SAY PRDT PICTURE '99/99/99'
137:
138:   @ 6, 1 SAY " | "
139:   @ 7, 1 SAY " | ISO- | "
140:   @ 8, 1 SAY " | KMP | TOPE | "
141:   @ 9, 1 SAY " | CODE | TR | RF | NP | SF | LN | "
142:   @ 10, 1 SAY " | "
143:   SKIP
144:   L=11
145:   DO WHILE L<23 .AND..NOT. EOF()
146:
147:     @ L, 1 SAY " | "
148:     @ L, 3 SAY KMP PICTURE 'X'
149:     @ L, 5 SAY " | "
150:     @ L, 8 SAY ICD PICTURE 'X'
151:     @ L, 10 SAY " | "
152:     @ L, 11 SAY ITR PICTURE '99,999,999'
153:     @ L, 21 SAY " | "
154:     @ L, 22 SAY IRF PICTURE '99,999,999'
155:     @ L, 32 SAY " | "
156:     @ L, 33 SAY INP PICTURE '99,999,999'
157:     @ L, 43 SAY " | "
158:     @ L, 44 SAY ISF PICTURE '99,999,999'
159:     @ L, 54 SAY " | "
160:     @ L, 55 SAY ILN PICTURE '99,999,999'
161:     @ L, 65 SAY " | "
162:     SKIP
163:     L=L+1
164:   ENDDO
165:
166:   IF EOF()
167:     @ L, 1 SAY " | "
168:     EXIT
169:   ENDIF
170:
171: ENDDO
172: @ 23,20 SAY &G+"PRESS ANY KEY"
173: QQ=" "
174: @ 23,34 GET QQ
175: READ
176: RETURN
177:
178:
179: PROCEDURE BOOK1
180: *****

```

```

181: * CREATE BOOK INVENTORY FROM LAST P.I. ( BOOKI.PRG ) *
182: *
183: * *****
184: * *****
185: * *****
186: * *****
187: * *****
188: * *****
189: * *****
190: * *****
191: * *****
192: * *****
193: * *****
194: * *****
195: * *****
196: * *****
197: * *****
198: * *****
199: * *****
200: * *****
201: * *****
202: * *****
203: * *****
204: * *****
205: * *****
206: * *****
207: * *****
208: * *****
209: * *****
210: * *****
211: * *****
212: * *****
213: * *****
214: * *****
215: * *****
216: * *****
217: * *****
218: * *****
219: * *****
220: * *****
221: * *****
222: * *****
223: * *****
224: * *****
225: * *****
226: * *****
227: * *****
228: * *****
229: * *****
230: * *****
231: * *****
232: * *****
233: * *****
234: * *****
235: * *****
236: * *****
237: * *****
238: * *****
239: * *****
240: * *****

```

```

241: RETURN
242: #####
243: #####
244: #####
245: PROCEDURE BOOK2
246: #####
247: * CREATE BOOK INVENTORY FROM I.C. ( BOOK2.PRG ) *
248: * 1986/10/04 *
249: #####
250:
251: PARAMETERS SSYMND
252: L=9
253:
254: SELECT 2
255: GOTO TOP
256:
257: DO WHILE CHGDAT<=FYMD
258:   SKIP
259:   IF EOF()
260:   | RETURN
261:   | ENDF
262: ENDDO
263:
264: DO WHILE .NOT. EOF()
265:
266:   IF CHGDAT>SSYMND
267:   | RETURN
268:   | ENDF
269:
270:
271:   IF CORRNO<>0
272:   | SKIP
273:   | LOOP
274:   | ENDF
275:   SHAP=RECNO()
276:   RRNO=RNO
277:   EENO=ENO
278:   LOCATE FOR CORRNO=RRNO .AND. CORRENO=EENO
279:   IF EOF()
280:   | GOTO SHAP
281:   | ENDF
282:
283:
284:
285:   *- UPDATE OF KMP (FROM) DATA ---
286:   STORE 0 TO FLG
287:   IF SUBSTR(II->CHGTYP,1,1)<>"R" .AND. II->CHGTYP<>"NP"
288:   | LOCATE FOR II->BAINO=BNAME .AND. II->ACCED=BECD .AND. II->ACCIOD=BICD
289:   |
290:   | IF SUBSTR(II->CHGTYP,1,1)="S"
291:   | | DELETE
292:   | | FLG=1
293:   | ENDF
294:
295:   IF II->CHGTYP="LN" .AND. FLG=0
296:   | STORE BEW-II->ACCEWT TO WEW
297:   | STORE BIW-II->ACCFIWT TO WIW
298:   | SELECT 6
299:   | LOCATE FOR MBACODE=II->MEA .AND. KMP<>II->KMP .AND.;
300:   | FRKMP=II->CNTRYF

```

```

301: SELECT 5
302: DELETE
303: APPEND BLANK
304: REPLACE BKMP WITH MM->TOKMP, BNAME WITH II->BATNO, BECD WITH II->ACCECD,BICD WITH II->ACCICD, BEW WITH WEW , BIW
WITH WIW
305: REPLACE BITM WITH II->BATITMS,BORG WITH II->ACCORG,BUNT WITH II->ACCUNT,BBAS WITH II->MESBCD, BNOTE WITH II->CONSID
306: REPLACE BMBA WITH WMBA,BOGN WITH WORG,BFCL WITH WFCL,EMDESC WITH II->MATDSC
307: STORE 1 TO FLG
308: ENDIF
309:
310: IF FLG=0
311: REPLACE BEW WITH BEW-II->ACCEWT,BIW WITH BIW-II->ACCFIWT
312: ENDIF
313:
314: IF BEW<=0 .AND. BIW<=0
315: DELETE
316: ENDIF
317: ENDIF
318:
319:
320: *- UPDATE OF KMP ( TO ) DATA ---
321: IF SUBSTR(II->CHGTYP,1,1)<>"S" .AND. II->CHGTYP<>"LN "
322: STORE 0 TO FLG
323: LOCATE FOR II->CNTRYT=BKMP .AND. II->BATNO=BNAME .AND. II->ACCECD=BECD .AND. II->ACCICD=BICD
324: IF EOF()
325: APPEND BLANK
326: REPLACE BKMP WITH II->CNTRYT.BNAME WITH II->BATNO,BECD WITH II->ACCECD,BICD WITH II->ACCICD, BEW WITH II->ACCEWT,BI
WITH II->ACCFIWT
327: REPLACE BITM WITH II->BATITMS,BORG WITH II->ACCORG,BUNT WITH II->ACCUNT,BBAS WITH II->MESBCD, BNOTE WITH II->CONSID
328: REPLACE BMBA WITH WMBA,BOGN WITH WORG ,BFCL WITH WFCL,EMDESC WITH II->MATDSC
329: ELSE
330: REPLACE BEW WITH BEW+II->ACCEWT,BIW WITH BIW+II->ACCFIWT
331:
332: ENDIF
333: ENDIF
334: SELECT 2
335: GOTO SHAP
336: SKIP
337:
338: ENDDO
339:
340: RETURN
341:
342: *****
343: *****
344: PROCEDURE BIPRT
345: *****
346: * BOOK INVENTORY PRINT OUT ROUTINE *
347: *****
348:
349: PARAMETER BBYMD
350: SELECT 5
351: COUNT TO CNT
352: STORE CNT-1 TO CNT
353: GOTO TOP
354:
355: SET DEVICE TO PRINT
356: BBYMD=BYMD
357:

```



```

358: @ 5,30 SAY "          BOOK INVENTORY LISTING"
359: @ 7,11 SAY "-----"
360: @ 7,61 SAY "-----"
361: @ 8,11 SAY " ORGANIZATION"
362: @ 8,61 SAY " DATE "
363: @ 8,75 SAY.BBYMD PICTURE '99/99/99'
364: @ 8,111 SAY "-----"
365: @ 9,11 SAY " NAME"
366: @ 9, 27 SAY QN
367: @ 9, 61 SAY "-----"
368: @ 9,111 SAY "-----"
369: @ 10,11 SAY " ADDRESS"
370: @ 10, 61 SAY "-----"
371: @ 10,111 SAY " FACILITY"
372: @ 11, 11 SAY "-----"
373: @ 11, 27 SAY Q2
374: @ 11, 61 SAY "-----"
375: @ 11,111 SAY "-----"
376: @ 12, 11 SAY " MATERIAL BALANCE AREA"
377: @ 12, 39 SAY Q4
378: @ 12, 61 SAY "-----"
379: @ 12,111 SAY "-----"
380: @ 13,11 SAY "-----"
381: @ 13,61 SAY "-----"
382: @ 14, 11 SAY " ORGANIZATION|FACILITY| MBA |DATE OF BIL|REPORT NO.|"
383: @ 14, 63 SAY "NUMBER OF ENTRY|"
384: @ 14,108 SAY "-----"
385: @ 15, 11 SAY "-----"
386: @ 15, 63 SAY "-----"
387: @ 16, 11 SAY "-----"
388: @ 16, 16 SAY BQGN PICTURE 'XXXX'
389: @ 16, 24 SAY "-----"
390: @ 16, 26 SAY BFCL PICTURE 'XXXX'
391: @ 16, 33 SAY "-----"
392: @ 16, 34 SAY BMBA PICTURE 'XXXX'
393: @ 16, 39 SAY "-----"
394: @ 16, 41 SAY BBYMD PICTURE '99/99/99'
395: @ 16, 51 SAY "-----"
396: @ 16, 62 SAY "-----"
397: @ 16, 69 SAY CNT PICTURE '99'
398: @ 16, 78 SAY "-----"
399: @ 16,108 SAY "-----"
400: @ 16,111 SAY "-----"
401: @ 17,11 SAY "-----"
402: @ 17,61 SAY "-----"
403: @ 18,11 SAY " 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |"
404: @ 18,62 SAY "10| 11 |12| 13 |14|15|16| 17 |18 |19|"
405: @ 19,11 SAY "-----"
406: @ 19,62 SAY "-----"
407:
408: STORE BMBA TO MBA
409: STORE BQGN TO ORG
410: STORE BFCL TO FCL
411: STORE BBYMD TO YMD
412: * SORT ON BKMP+BECD+BICD TO WK
413: SORT ON BKMP, BECD, BICD TO WK
414: USE WK ALIAS BB
415: GO TOP
416: STORE 1 TO ENO
417: SKIP

```

```

418: DO WHILE .NOT. EOF()
419: STORE 19 TO L
420: DO WHILE L<41
421: SELECT 6
422: LOCATE FOR KMP=BB->BKMP
423: IF .NOT. EOF()
424: -----
425: SELECT 5
426: STORE L+1 TO L
427: @ L, 11 SAY "|"
428: @ L, 12 SAY MBA PICTURE 'XXXX'
429: @ L, 17 SAY "|"
430: @ L, 23 SAY "|"
431: @ L, 24 SAY ENO PICTURE '99'
432: @ L, 27 SAY "|"
433: @ L, 30 SAY "|"
434: @ L, 31 SAY BKMP PICTURE 'X'
435: @ L, 33 SAY "|"
436: @ L, 34 SAY BNAME PICTURE 'XXXXXXXX'
437: @ L, 43 SAY "|"
438: @ L, 44 SAY BITM PICTURE '9999'
439: @ L, 49 SAY "|"
440: @ L, 50 SAY BMDESC PICTURE 'XXXX'
441: @ L, 55 SAY "|"
442: @ L, 56 SAY BORG PICTURE 'XXXX'
443: @ L, 61 SAY "|"
444: @ L, 62 SAY BECD PICTURE 'X'
445: @ L, 64 SAY "|"
446: @ L, 65 SAY BEW PICTURE '99999999'
447: @ L, 75 SAY "|"
448: @ L, 76 SAY BUNT PICTURE 'X'
449: @ L, 78 SAY "|"
450: @ L, 80 SAY BIW PICTURE '99999999'
451: @ L, 89 SAY "|"
452: @ L, 90 SAY BICD PICTURE 'X'
453: @ L, 92 SAY "|"
454: @ L, 93 SAY BRAS PICTURE 'X'
455: @ L, 95 SAY "|"
456: @ L, 98 SAY "|"
457: @ L,104 SAY "|"
458: @ L,108 SAY "|"
459: @ L,111 SAY "|"
460: ENDIF
461: -----
462: SELECT 5
463: SKIP
464: STORE ENO+1 TO ENO
465: IF EOF() .OR. L>=41
466: STORE L+1 TO L
467: @ L,11 SAY "+"
468: @ L,62 SAY "+"
469: STORE L+1 TO M
470: STORE 50 TO L
471: ENDIF
472: -----
473: ENDDO
474: STORE M TO L
475: STORE L+1 TO L
476: @ L, 3 SAY " 1: MBA"
477: @ L,33 SAY " 2: REPORT NO."

```

```

478: @ L,63 SAY " 3: ENTRY NO."
479: @ L,93 SAY " 4: CONTINUATION"
480: STORE L+1 TO L
481: @ L, 3 SAY " 5: KMP CODE"
482: @ L,33 SAY " 6: NAME/NO. OF BATCH"
483: @ L,63 SAY " 7: NUMBER OF ITEMS IN BATCH"
484: @ L,93 SAY " 8: MATERIAL DESCRIPTION"
485: STORE L+1 TO L
486: @ L, 3 SAY " 9: ORIGIN OF MATERIAL"
487: @ L,33 SAY "10: ELEMENT CODE"
488: @ L,63 SAY "11: WEIGHT OF ELEMENT"
489: @ L,93 SAY "12: UNIT OF WEIGHT"
490: STORE L+1 TO L
491: @ L, 3 SAY "13: WEIGHT OF FISSILE ISOTOPE"
492: @ L,33 SAY "14: ISOTOPE CODE"
493: @ L,63 SAY "15: MEASUREMENT BASIS"
494: @ L,93 SAY "16: CONSCISE NOTE"
495: STORE L+1 TO L
496: @ L, 3 SAY "17: REPORT NO.(CORRECTION TO)"
497: @ L,33 SAY "18: ENTRY NO(CORRECTION TO)"
498: @ L,63 SAY "19: TYPE"
499: IF EOF( )
500: -- EJECT
501: -- LOOP
502: ENDIF
503: EJECT
504: @ 5,30 SAY " BOOK INVENTORY LISTING"
505: @ 7,11 SAY "+-----+"
506: @ 8,11 SAY " ORGANIZATION"
507: @ 8,61 SAY " DATE"
508: @ 8,75 SAY BBYMD PICTURE '99/99/99'
509: @ 8,111 SAY " NAME"
510: @ 9,111 SAY " "
511: @ 9, 27 SAY QN
512: @ 9, 61 SAY " ADDRESS"
513: @ 9, 61 SAY " FACILITY"
514: @ 9,111 SAY " "
515: @ 10,11 SAY " MATERIAL BALANCE AREA"
516: @ 10, 61 SAY " "
517: @ 10,111 SAY " "
518: @ 11, 11 SAY " "
519: @ 11, 27 SAY Q2
520: @ 11, 61 SAY " "
521: @ 11,111 SAY " "
522: @ 12, 11 SAY " "
523: @ 12, 39 SAY Q4
524: @ 12, 61 SAY " "
525: @ 12,111 SAY " "
526: @ 13,11 SAY " "
527: @ 13,61 SAY " "
528: @ 14, 11 SAY " ORGANIZATION,FACILITY, MBA DATE OF PIL,REPORT NO."
529: @ 14, 63 SAY "NUMBER OF ENTRY"
530: @ 14,108 SAY " "
531: @ 15, 11 SAY " "
532: @ 15, 63 SAY " "
533: @ 16, 11 SAY " "
534: @ 16, 16 SAY ORG PICTURE 'XXXX'
535: @ 16, 24 SAY " "
536: @ 16, 26 SAY FCL PICTURE 'XXXX'
537: @ 16, 33 SAY " "

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538: @ 16, 34 SAY MBA PICTURE 'XXXX'
539: @ 16, 39 SAY "!"
540: @ 16, 41 SAY YMD PICTURE '99/99/99'
541: @ 16, 51 SAY "!"
542: @ 16, 62 SAY "!"
543: @ 16, 69 SAY CNT PICTURE '99'
544: @ 16, 78 SAY "!"
545: @ 16, 108 SAY "!"
546: @ 16, 111 SAY "!"
547: @ 17, 11 SAY "=="
548: @ 17, 61 SAY "=="
549: @ 18, 11 SAY " | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |"
550: @ 18, 62 SAY " | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |"
551: @ 19, 11 SAY "!"
552: @ 19, 62 SAY "!"
553: ENDDO
554: STORE 0 TO D
555: DO WHILE D<500
556: | STORE D+1 TO D
557: ENDDO
558: SET DEVICE TO SCREEN
559: RETURN
560:
561: PROCEDURE BIPRT2
562: *****
563: * BOOK INVENTORY PRINT OUT ROUTINE *
564: *****
565:
566: SET DEVICE TO SCREEN
567: PARAMETER BBYMD
568: SELECT 5
569: COUNT TO CNT
570: STORE CNT-1 TO CNT
571: GOTO TOP
572: BBYMD=BYMD
573:
574:
575: CLEAR
576:
577: ?? &Y
578: @ 2,5 SAY "*****BOOK INVENTORY HEADER INFORMATION*****"
579: @ 3,5 SAY " "
580: @ 4,5 SAY "*****"
581: @ 6,5 SAY "ORGANIZATION CODE : |NAME : "
582: @ 7,5 SAY "FACILITY CODE : |NAME : "
583: @ 8,5 SAY "MBA CODE : |NAME : "
584: @ 10,5 SAY "DATE OF BIL : "
585: ?? &W
586: @ 6,24 SAY QC
587: @ 6,36 SAY QN
588: @ 7,24 SAY Q1
589: @ 7,36 SAY Q2
590: @ 8,24 SAY Q3
591: @ 8,36 SAY Q4
592: @ 10,32 SAY BBYMD PICTURE '99/99/99'
593:
594: * SORT ON BKMP+BECD+BICD TO WK
595: SORT ON BKMP, BECD, BICD TO WK
596: USE WK ALIAS BB
597: GO TOP

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598:
599: SKIP
600: IF EOF ( )
601: @ 23,20 SAY &G+"PRESS ANY KEY"
602: Q=" "
603: @ 23,34 GET Q
604: READ
605: CLEAR
606: ?? &Y
607: @ 1,16 SAY " BOOK INVENTORY LISTING"
608: @ 1,60 SAY BBYMD PICTURE '99/99/99'
609: @ 3,1 SAY " RMP NAME/ NO.OF MATE- ORIGIN ELE-
610: @ 4,1 SAY " NO.OF ITEMS RIAL OF MENT
611: @ 5,1 SAY "CODE IN DESC- MATE-
612: @ 6,1 SAY " BATCH BATCH RIPT. RIAL CODE MENT"
613: @ 7,1 SAY " - - - - -"
614:
615: @ 10,10 SAY "NO ENTRY RECORD"
616: ENDIF
617: DO WHILE .NOT. EOF ( )
618: @ 23,20 SAY &G+"PRESS ANY KEY"
619: Q=" "
620: @ 23,34 GET Q
621: READ
622: CLEAR
623: ?? &Y
624: @ 1,16 SAY " BOOK INVENTORY LISTING"
625: @ 1,60 SAY BBYMD PICTURE '99/99/99'
626: @ 3,1 SAY " RMP NAME/ NO.OF MATE- ORIGIN ELE-
627: @ 4,1 SAY " NO.OF ITEMS RIAL OF MENT
628: @ 5,1 SAY "CODE IN DESC- MATE-
629: @ 6,1 SAY " BATCH BATCH RIPT. RIAL CODE MENT"
630: @ 7,1 SAY " - - - - -"
631:
632: L=8
633:
634: ? &W
635: DO WHILE L<23 .AND. .NOT.EOF ( )
636: @ L, 2 SAY BKMP PICTURE 'X'
637: @ L, 5 SAY BNAME PICTURE 'XXXXXXXX'
638: @ L,14 SAY BITM PICTURE '9999'
639: @ L,20 SAY BDESC PICTURE 'XXXX'
640: @ L,27 SAY BORG PICTURE 'XXXX'
641: @ L,34 SAY BECD PICTURE 'X'
642: @ L,37 SAY BEW PICTURE '999999999'
643: @ L,47 SAY BUNT PICTURE 'X'
644: @ L,50 SAY BIW PICTURE '999999999'
645: @ L,60 SAY BICD PICTURE 'X'
646: @ L,65 SAY BBAS PICTURE 'X'
647:
648: L=L+1
649:
650: SKIP
651: ENDDO
652:
653: ENDDO
654: @ 23,20 SAY &G+"PRESS ANY KEY"
655: Q=" "
656: @ 23,34 GET Q
657: READ

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658: RETURN