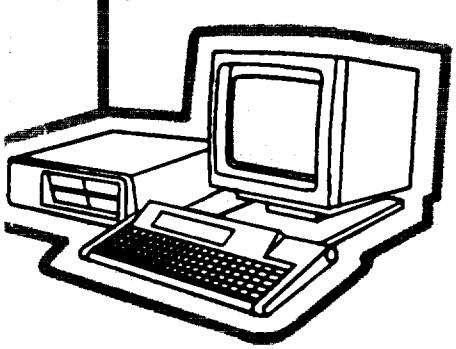
COMPUTER MANUAL SERIES

No.7

The PACKTRAM Database on National Competent Authorities' Approval Certificates for Package Design, Special Form Material and Shipment of Radioactive Material

User's Guide for Compiled System Program



International Atomic Energy Agency, 1995

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The PACKTRAM Database on National Competent Authorities' Approval Certificates for Package Design, Special Form Material and Shipment of Radioactive Material

User's Guide for Compiled System Program

INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1995

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THE PACKTRAM DATABASE ON NATIONAL COMPETENT AUTHORITIES' APPROVAL CERTIFICATES FOR PACKAGE DESIGN, SPECIAL FORM MATERIAL AND SHIPMENT OF RADIOACTIVE MATERIAL
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FOREWORD

PACKTRAM is the IAEA's database on national competent authorities' approval certificates for package design, special form material and shipment of radioactive material. It was developed in the 1980s as a tool for regulatory compliance in the transport safety area and is primarily intended for regulators, shippers of radioactive material, customs and port officials. More and more Member States participate actively in this database.

Administrative and technical data on valid and recently-expired certificates of approval are regularly provided by issuing competent authorities. The IAEA collates international data and publishes annual reports in a format recommended by its Member States.

Annual reports are distributed free of charge to all offices designated as the national competent authority responsible for radioactive material transport in the IAEA's Member States. In addition, updated diskette copies of the main data file are provided to those authorities submitting data on diskette and other registered users.

The PACKTRAM system program enables Member States to prepare data diskettes for submission to the IAEA, and facilitates data manipulation and report preparation for the IAEA. The system program is provided as a 424 kbyte executable file, for which this document is the User Guide. The system is fully menu-driven and requires an IBM-compatible personal computer with a minimum of 640 kbyte random access memory, a hard drive and one 3-1/2 inch diskette drive.

The IAEA wishes to express its thanks to Mr. John J. McLellan of the Atomic Energy Control Board, Canada for his assistance in developing the PACKTRAM database and continuing support in its maintenance.

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EDITORIAL NOTE

In preparing this publication for press, staff of the IAEA have made up the pages from the original manuscript(s). The views expressed do not necessarily reflect those of the governments of the nominating Member States or of the nominating organizations.

Throughout the text names of Member States are retained as they were when the text was compiled.

The use of particular designations of countries or territories does not imply any judgement by the publisher, the IAEA, as to the legal status of such countries or territories, of their authorities and institutions or of the delimitation of their boundaries.

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1. INTRODUCTION

The IAEA PACKTRAM database system was developed in the 1980s to collect a listing of competent authority package approval certificates for transporting special form radioactive material, radioactive material in Type B and fissile packages and special arrangements for all Member States. Initially the system was developed on a mainframe computer with the IAEA intending to do the data entry. This was not successful because of limited participation and the large amount of data that had to be entered and updated. Consequently with the worldwide use of personal computers in the mid-1980s the system was rewritten in a commercial data management software to work on an IBM-compatible personal computer. The new program made possible the submission of data on floppy disk, and thus encouraged more and more Member States to participate in the data collection effort. Minor revisions were made to the database file structure in 1992 to take account of the 1985 Edition of Safety Series No. 6, the IAEA's Regulations for the Safe Transport of Radioactive Material [1].

The PACKTRAM system program facilitates the exchange of data by electronic means between Member States and the IAEA. There is a data input routine mainly intended for Member States to enter data for their respective package approval certificates and prepare diskettes for submission to the IAEA. There are processing programs that allow the IAEA to retrieve, verify and collate data submitted by Member States, and summarize the data in tables for presentation in an annual report. Finally, there are utility programs that facilitate data maintenance.

The IAEA prepares a report annually on the contents of the database, publishing it in the form of a TECDOC [2]. The annual report is distributed worldwide on publication to all offices registered with the IAEA as the designated national competent authority for radioactive material transport matters and package manufacturers and transporters who have signified an interest in the document. In addition to the annual report, those Competent Authorities who provide data for the database receive diskette copies of the updated main data file.

There are no restrictions to modifying the PACKTRAM system program for national data collection requirements. Member States are also not required to use the PACKTRAM system program to prepare data for submission to the IAEA. However, any electronic data sent to the IAEA must be submitted in a form (file structures and contents) consistent with PACKTRAM data files. In addition, to ensure consistency, the IAEA will only accept data submitted by designated national competent authorities.

The PACKTRAM system program is also available to other interested parties who, as registered users, receive diskette copies of the main data file together with the annual report.

Hitherto, data has been submitted to the IAEA in three forms: by diskette, by use of the data input form or by providing copies of the package approval certificates themselves. Although the IAEA and contributing offices strive to collect as much data as possible, the database as it stands now is by no means complete. When additional, detailed information is required, it is suggested that contact be made with the issuing office. The IAEA publishes a list of addresses and telephone and facsimile numbers of designated competent authorities [3].

Efforts have been made to ensure that terminology in this publication and within the PACKTRAM system is consistent with Safety Series No. 6.

2. INSTALLING THE SYSTEM PROGRAM

2.1. COMPUTING REQUIREMENTS

2.1.1. Hardware requirements

The IAEA PACKTRAM system is designed to run on an IBM compatible personal computer with 640 kbytes memory, a hard drive and 1 high density 3.5 inch diskette drive. While the system is designed for a colour monitor it will run with a monochrome monitor. With a monochrome monitor that uses a grey scale some problems can be encountered where the background and foreground intensity levels are very close, or a highlighted area does not stand out. In this case some experimenting may be necessary to determine which colour combinations work best.

2.1.2. Software requirements

The PACKTRAM.EXE program will run on DOS 3.21 or higher. It may work on an older version but this has not been tested. The "EXE" file is approximately 424 kbytes long. As some memory is required for storage of the variable and the open database files the amount of free memory available must be in the order of 500 kbytes. Since several files and indexes may be open at any one time the files statement in the AUTOEXEC.BAT file should be increased if problems are encountered in opening files while running the system. This can be a problem if running on an older computer without the use of the upper memory where space is at a premium. Some experimentation may be necessary. Under normal conditions the files should be set to a minimum of FILES = 40 and BUFFERS = 8.

The hard drive space requirements are minimal. Five megabytes of hard drive space should be sufficient for most applications. Most of this space is occupied by the data files and indexes. If the archive file is very large more space could be required.

With the present amount of data in the data files it is not possible to run the system without a hard drive. Theoretically it may be possible to run from a floppy diskette for a specific application if much of the data was deleted but long delays in indexing could be experienced.

Since the file structure is in the dBASEIII+ format it is possible to manipulate the data files with programs such as dBASEIII+, dBASEIV or FOXPRO and to read the files into many of the spreadsheets if custom output is needed for national applications. If file changes are done outside of the PACKTRAM system, care should be taken not to corrupt the data and to ensure that the re-indexing routine is run on startup.

2.2. LOADING THE SYSTEM PROGRAMS AND DATA FILES

The PACKTRAM system is provided on 2 high density 3.5 inch floppy diskettes. Diskette #1 contains the installation programs; the data files STATES.DBF, ANNEX1.DBF, TOIAEA.DBF and IAEAARCH.DBF; and the program PRG files. On distribution the archive IAEAARCH.DBF and TOIAEA.DBF files are empty, i.e., they contain no records. Diskette #2 contains only the main data IAEADATA.DBF file.

Load installation diskette #1 into diskette drive A or B and type
"A:" or "B:" <enter>
"INSTALL" <enter>

In other words, go to the floppy drive and run the install program from there. A batch program is run which loads the main installation program INSTPACK.EXE temporarily on to drive C and presents a menu to install the system on hard drive C or D. There is an option not to install the PRG files, which are not required for the operation of the system but are nevertheless included

for information purposes or for the more experienced users who may want to customize their system.

The system is installed on a directory named PACKTRAM off the root directory of either C or D drive with a sub-directory named PROGRAMS for the program files. The PROGRAMS sub-directory may or may not have the program files depending on the choice made upon installation.

To prevent overwriting data, the installation program will discontinue if there already exists a directory off the root named PACKTRAM. In this case, the existing directory must be deleted manually before proceeding.

2.3. CUSTOMIZED INSTALLATION

It is possible to do a manual installation and specify directory names different from those foreseen. The only requirement is that the PACKTRAM.EXE file must be loaded in the same directory as the data files (with .DBF extension).

2.4. INDEXES AND MEMORY FILES

On startup the indexes and memory file are recreated automatically. If the system is moved to another computer, it may be desirable to transfer of the memory file IAEAVER.MEM so that customized colour screens can be retained, if that option has been used. However, if transferring from a colour to a monochrome system or from monochrome to colour the memory file should not be transferred. The PACKTRAM system checks the computer configuration for either a colour or monochrome monitor, and installs default colours accordingly. There is no need to transfer the index files or back them up as these will be recreated should one or more not be present on the directory at startup.

2.5. RUNNING THE PROGRAM

2.5.1. On hard disk

Once the system is installed, it may be run in DOS or from within Windows as a DOS application. To run in DOS, type:

CD\PACKTRAM <enter>
PACKTRAM <enter>

It is also possible to create a batch file to do this automatically. However, no provision has been made to run the PACKTRAM system from a different directory even if the PACKTRAM directory is listed in the path.

In Windows, a new program icon would have to be created. Choose the program group under which the icon should be located. Then, select NEW under the FILE MENU in the program manager. Complete the program information file as follows:

Description: PACKTRAM
Command line: PACKTRAM.EXE
Working directory: C:\PACKTRAM.

No PACKTRAM icon is supplied with the installation diskettes, so Windows will use a default icon.

If "terminal stay resident" (TSR) programs occupy much of the lower memory, problems may be encountered if not enough memory is available. It may be necessary to remove some of the TSR programs or, better still, use a later version of DOS that allows upper memory to be utilised for many of the TSR programs. High memory is not utilised by the PACKTRAM system.

2.5.2. From floppy diskette

Running the PACKTRAM system program from a floppy diskette is not recommended.

3. PROGRAM AND FILE STRUCTURE

3.1. GENERAL

This revision is intended to make the PACKTRAM system more user friendly by allowing all the file maintenance to be done through the menu selections rather than using dBase commands directly. Colour has also been added. Further, the dBase code is compiled using Clipper 5.2. The source code is included for those Member States who may wish to develop their own system but still submit data to the IAEA in the required format. Since some functions unique to Clipper 5.2 have been used and the number of routines in the procedure file has been increased, this version will not run on dBaseIII+ nor dBaseIV. However, data manipulation can still be done with dBase as the dBaseIII+ files and index structure have been retained.

3.2. STRUCTURE OF DATA FILES

The PACKTRAM system programs have been compiled into a self contained EXE program called PACKTRAM.EXE using Clipper 5.2 with the dbaseIII+ database file format being retained by use of the Clipper driver "DBFNDX".

The IAEA PACKTRAM system program consists of a series of menu-driven routines that allow complete control of the information being entered into the databases required to hold information and then process information for the production of annual reports. Information is stored in five databases.

The main data file is called IAEADATA.DBF. It contains the information on current and recently expired package approval certificates, package validations and special form certificates. An archival database IAEAARCH.DBF allows expired data to be retained in the event that it may be required in future. The structure of this file is identical to that of IAEADATA.DBF. If a later version of a certificate is issued, the old information can be utilised with minimal effort.

There is a temporary data file called TOIAEA.DBF that has the same structure as the main IAEADATA.DBF file. It is used by Member States to submit data on floppy diskettes to the IAEA.

There is a data file called STATES.DBF which contains the names and addresses of competent authorities of those Member States who have or may, in the near future, submit certificates. New entries can be added through the menu-driven system. The complete listing is published in the annual report.

The ANNEX1.DBF data file contains VRI and ISO codes of IAEA Member States. New entries can be readily added. This information is also published in the annual report. This file also contains a field for "period ending date" and 2 fields to hold statistics on the number of current and expired records during processing.

Annex I shows the structures of these five data files.

3.3. INDEX FILES

There are various index files used by the system. These allow the data files to be used or listed in various logical orders without physically sorting the data files. Since the indexes can be readily recreated there is no need for them to be backed up or retained permanently. If for some reason the main IAEADATA.DBF file is modified without the index being updated, unpredictable results can occur. If problems occur during processing, the first thing to do is to re-index and try the operation again. While due care has been taken to eliminate problems with indexing, there

may be cases when the indexes have been corrupted and re-indexing is necessary. Annex II contains a list of the index files.

3.4. PROCESSING FILES

3.4.1. Memory file

The memory file "IAEAVER.MEM" contains the default settings that are retained from one session to the next. If this file is lost it is automatically recreated on start-up with the default settings. The major loss would be the user colour settings, if the user has taken the time to set up his own colours. Annex III lists the variables contained in the memory file.

3.4.2. Screen colours

All the screen colour selections are retained from one session to the next in the memory file. Settings can be viewed with the selections 6-8-D-6 from the main menu. The colour settings cannot be accessed with a monochrome monitor. A notice to this effect will be displayed on the screen.

If the memory file is recreated and a monochrome screen is being used, all screens will be set to black and white "W/N , +N/W, N" for all settings. Note that some B&W monitors act like a colour monitor in that a grey scale output is used. This can cause some problems in distinguishing between the fore- and background colours. If the memory file is recreated and a colour monitor is being used, the screens will reset to the default colours.

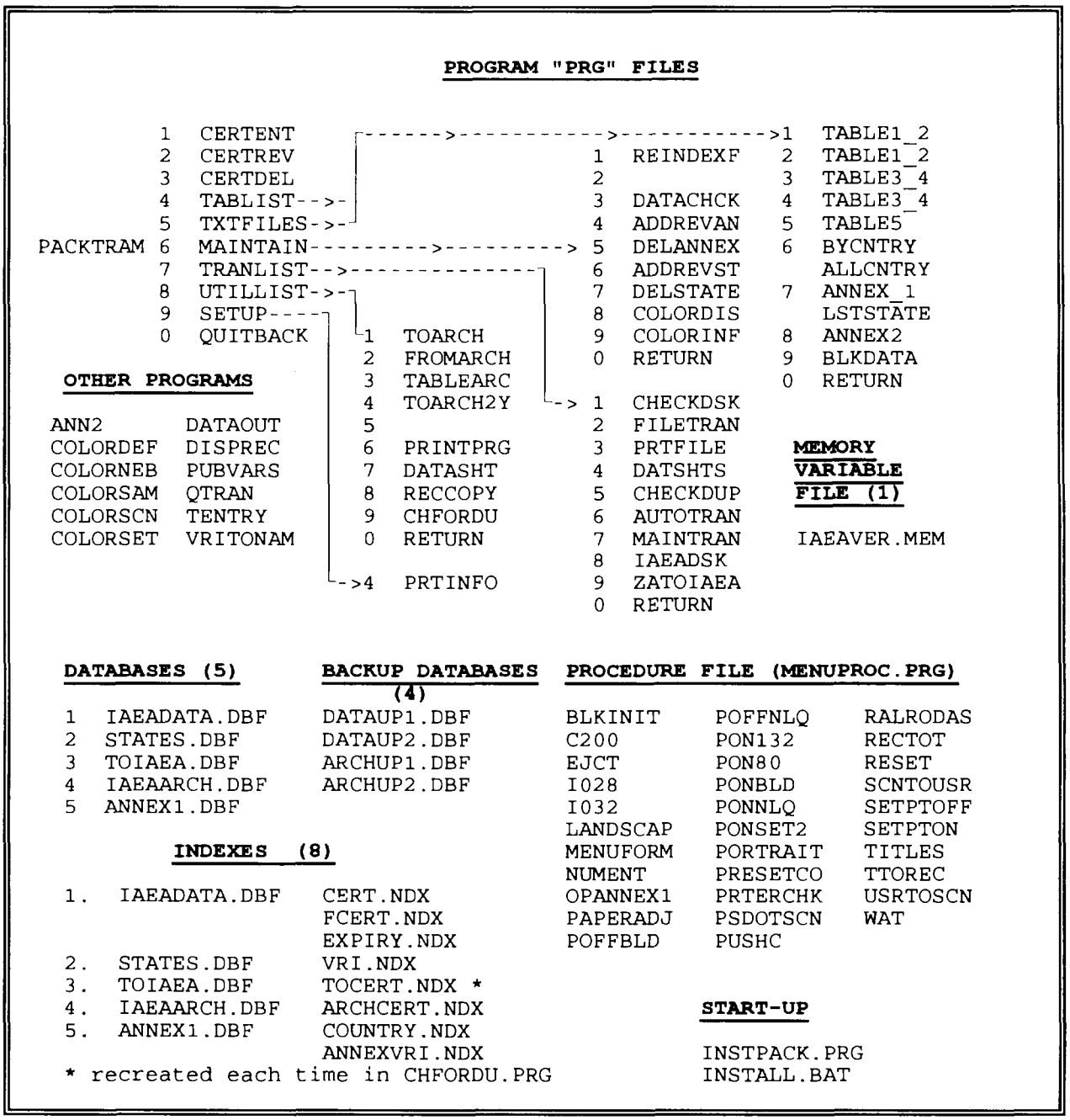
Annex III shows the procedure for customizing colour settings.

Every time the memory file is saved all the variables are resaved.

3.4.3. Procedure and program files

This system is a revision of the previous version that was designed to work with dBaseIII+. In dBaseIII+ there were differences in the way that program and procedure files were handled. The procedure file was retained in memory while the program files were reloaded as needed. In the system compiled with Clipper this is not the case. Since all files have been compiled into the EXE code there is essentially no difference between a PRG file and a procedure file. However, for ease of handling, the use of a procedure file has been retained to physically combine many short files. Each of these procedures could have been retained as a PRG file or even dispersed throughout the PRG files.

3.5. FLOW CHART



4. INSTRUCTIONS FOR USING THE PROGRAM

4.1. GENERAL

Member States should make every effort to supply their own country's transport certificate data in electronic format. This can be done using the PACKTRAM system program as detailed in this guide, or with a system of their own specifications which will produce the information in the proper file structure.

In order to enter good data some knowledge of the package and contents is required since the space available for entry is limited. Normally the competent authority is in the best position to do this since they have the necessary expertise on hand from the review of the safety analysis report and approval of the package. This is even more important on revisions as it should be a very simple matter to revise an entry, especially when detailed technical knowledge on any change is available.

If data cannot be provided in electronic form, then the next best thing is to supply completed data sheets for each package and indicate on revisions the specific information that has been revised. Blank copies of the data sheet can be obtained either directly from the IAEA, from an appendix of the annual report or produced with selection 4-9 from this system.

If neither of the previous methods can be availed of, then by all means submit copies of the certificates and request that the IAEA enter the information. Submitting data this way may be feasible for Member States who only have one or two certificates but is impractical for Member States issuing large numbers of certificates. There is also the added problem that the IAEA staff entering data may only have limited, if any, knowledge of the packages and their contents.

4.2. PROCESSING BY MEMBER STATES

4.2.1. Data entry

Data for new certificates should be entered into the PACKTRAM system as the certificates are issued and then, periodically, the records transferred to the TOIAEA.DBF file, data sheets prepared and finally, copies of the data sheets and the TOIAEA.DBF file sent to the IAEA.

When data is entered the DTOIAEA field (date at which data is sent to the IAEA) is left blank in the main IAEADATA.DBF file. This blank field is used as the condition for those records that are to be extracted to send to the IAEA when the TOIAEA.DBF file is produced. When the TOIAEA.DBF file is prepared with selection 7-8 the DTOIAEA field is appropriately completed in the main IAEADATA.DBF file. Then when the data sheets are produced with selection 7-4 the DTOIAEA field is completed in the TOIAEA.DBF file. Since the entry is taken from the current date in the computer there is a need to ensure that the current date is maintained by the battery when the computer is turned off.

If data sheets are not produced by the Member State, the date to the IAEA "DTOIAEA" field should be left blank in the TOIAEA.DBF file. The IAEA can then fill in the date automatically when they print data sheets. When the data sheets are produced using Selection 7-4 the "DTOIAEA" is entered automatically in the TOIAEA.DBF file.

4.2.2. Data submission

Data can be submitted on either 3.5-inch or 5.25-inch floppy diskettes.

With the common use of 3.5-inch diskettes it is preferred that these be used for submitting data. These can either be in the 1.4 Mbyte or 720 kbyte format. The diskette should be

formatted to the correct capacity of the diskette to avoid problems. The 1.4 Mbyte format has the square hole in the bottom right hand corner while the 720 kbyte format does not.

For data submitted on the 5.25 inch diskette a bit more care is needed. There can be problems in reading a 360 kbyte diskette formatted in the 1.2 Mbyte drive. It is good practice to use the appropriate drive: the 1.2 Mbyte drive can read a 360 kbyte formatted diskette most times, but a 360 kbyte drive cannot read a 1.2 Mbyte floppy diskette.

The system offers a choice of A: or B: diskette drives to copy from.

4.2.3. Data sheets

One of the features of the PACKTRAM system is the ability to print out all the information on an entry on a single sheet of paper. This is commonly referred to as a "data sheet". An easy way of keeping track of what information was sent to the IAEA is to produce a data sheet for each certificate and retain a copy of the data sheet on file. A copy of the data sheet plus a copy of the certificate should be sent to the IAEA along with the information on floppy disk.

Data sheets are useful to the IAEA when queries on packages are received. A copy of the data sheet can be faxed to provide a quick response.

4.2.4. Repeat of cycle

After a submission has been made to the IAEA the Member State can remove the records from the TOIAEA.DBF file with Selection 7-9 and the process repeated several months later. Only those records which have been revised since the last submission need to be sent to the IAEA.

Since the DTOIAEA field is used to trigger those records that will be sent to the IAEA this field must be blanked when a change is made when a record is revised, i.e., information regarding a certificate needs to be changed.

4.2.5. Use for national data collection requirements

If Member States wish, the PACKTRAM system program could be used to keep track of their own approval certificates. The data would be entered in the manner described in Section 5. Selection 7-8 would be used to choose those records that are to be sent to the IAEA. When records are initially entered the DTOIAEA field (date sent to IAEA, or date IAEA entered info) is left blank. Selection 7-8 copies those records in the main IAEADATA.DBF file whose DTOIAEA field is blank to the TOIAEA.DBF file, and the current date is entered in the DTOIAEA field in the main IAEADATA.DBF file.

4.3. PROCESSING BY IAEA

4.3.1. Receiving and verifying data

Upon receipt from Member States, diskettes are checked by the IAEA using the routines in Menu 7. The presence of the TOIAEA.DBF file is verified on the diskette before it is copied onto the IAEA's hard disk for further processing.

Data verification is performed by the IAEA with routines in the Menu 7: a check is made for duplicate records, duplicate records are archived and data input sheets for all records in the TOIAEA.DBF file are printed for control purposes. On printing these, the DTOIAEA field is automatically completed. If data input forms are not made at this time, they can be printed later by the IAEA, who at that time will complete the DTOIAEA field.

After Member State data in the TOIAEA.DBF file has been checked, the records are appended to the main IAEADATA.DBF file on the IAEA's hard disk, and the procedure repeated for data from other Member States.

4.3.2. Data maintenance and housekeeping

The main IAEADATA.DBF file which contains records from all participating Member States is maintained by the IAEA and is available for distribution on diskette together with the annual report . It is kept up-to-date by archiving those records whose expiry date falls earlier than two complete calendar years from the current year. Such records are moved to the archive IAEAARCH.DBF file that is kept by the IAEA. The archive file is not normally distributed. The routines in Menu 8 and Menu 0 are used for these purposes.

4.3.3. Annual report

The IAEA publishes an annual report that presents the data in the various files in easy to reference tabular form. Tables 1 through 4, and 6 present administrative information about the approval certificates in the main IAEADATA.DBF file; Table 5 presents data of a more technical nature. Background data is provided in the appendixes.

Member States are informed by which date data for the forthcoming annual report has to be provided. However, it is suggested that data be provided quarterly or semi-annually to reduce the workload at report time, and also to keep the database current. The IAEA collates all Member States' input into the main IAEADATA.DBF file and verifies data as described in Section 4.2.1. Then a cut-off date for archiving expired records is applied before the tables are prepared using Menu 4. The archiving procedure keeps expired records to a minimum, thus ensuring the effectiveness of the annual report.

Table 1 - Current Certificates

This table lists certificates that are valid on the date that the report is prepared. It does not include those certificates that endorse or validate other Member States' certificates.

Table 2 - Expired Certificates

This table lists certificates that expire during the current year and the last complete one. Certificates that expired earlier are automatically archived and, therefore, not included in the annual report.

Table 3 - Current Certificates by Validation Number

This table lists those certificates that are endorsed/validated by other Member States. In cases where there is more than one validating Member State, all are listed alphabetically by certificate number. For multilateral approvals effected by validation, the validating authority's file reference number is used as the certificate number.

Table 4 - Expired Certificates by Validation Number

This table lists those expired certificates that have been endorsed/validated by other Member States. As for Table 2, those certificates have been listed which expire within the current year and the last complete one. Those certificates that expired earlier are archived and not included in the annual report.

Table 5 - Mass, Contents and Description for all Certificates and Validations

All certificates are listed under this table, which shows information of a technical nature, i.e., package mass, list of authorized contents and a description of the package contained in two lines. The first of these description lines has been re-defined into seven fields: shape, length, width, diameter, height, shield and casing. All dimensions are expressed in millimetres (mm). The second description line contains additional information about the package.

Table 6 - Certificates Listed by Member State

This table shows the certificates issued by each participating Member State. In addition, the date at which information was provided by the respective Member State is indicated. This date is provided to give an indication of completeness of data being reported on; for certificates issued after this date, queries should be directed to the appropriate competent authority.

Appendix I of the annual report shows a list of IAEA Member States and their Vehicle Registration Identification codes, which are used in coding certificate identification marks. Where the VRI Code is not available, the ISO code is shown between asterisks.

Appendix II lists the names and addresses of those competent authorities who contribute, or have indicated their intent to contribute, information to the database.

Appendix III contains a statistical summary of the certificates being reported on in the annual report, broken down by reporting Member State.

Finally, in *Appendix IV* there is a copy of the blank data input sheet by which information is submitted to the database. If it is not possible to provide data on diskette, Member States are requested to use this form, and prepare one for each certificate being reported on.

4.3.4. Distribution

When the annual report is published, it is distributed worldwide to national competent authorities responsible for radioactive material transport and to a mailing list maintained for the purpose. Competent authorities are welcome to provide the names and addresses of port, customs and other offices for whom it may be useful. Carriers, package designers and manufacturers and other interested parties may also be put on the mailing list.

Those competent authorities who send their data to the IAEA on diskette also receive a diskette copy of the updated main IAEADATA.DBF file together with the annual report.

5. EXPLANATION OF ROUTINES AND MENUS

5.1. GENERAL

The PACKTRAM system is a menu-driven DOS-based compiled program using data files with a dBaseIII+ structure. Except for the main menu, the user selects an option from a menu by entering the digit after the decimal point.

The information in this database is neither complete nor guaranteed to be accurate. If detailed information is required, the original certificate must be consulted.

While this database is intended mainly to be maintained in English, some organizations have submitted data in other languages. This may present difficulties in printing where special characters may not be recognized because of the limitations in the fonts and symbol sets. These characters can also disrupt the printing if a dot matrix printer is being used. There is also a possibility of corrupting the data if the data is being manipulated with dBaseIII+ commands.

There is a possibility to work with or without a printer. When working with a printer, data listings are displayed on the screen and sent to the printer; when working without a printer, listings are only displayed on screen. However, most instructions displayed on the screen will not print regardless of whether the printer is engaged or not.

On starting up, a user should go through the set up routines in Menu 9 to select:

- IAEA or Member State system version
- whether or not a printer is engaged
- the type of printer and port setting if a printer is engaged
- the paper size for printer outputs, and
- the current date.

The status of these settings is displayed in most of the menus and sub-menus, and is maintained on shut-down providing the memory file is not lost.

5.2. MAIN MENU

THE IAEA PACKTRAM DATABASE, MAIN MENU

1. To Enter a New Certificate
2. To Revise a Certificate
3. To Delete a Certificate

4. Printing Menu
5. Output to ASCII File Menu

6. Maintenance/Re-index Menu
7. Transfer Data Menu
8. Archive and Utility Menu
9. Printer/Version/Page Setup Menu

0. Backup/Quit Menu

Selection ▒

The main menu provides access to all the other routines, either directly, or through sub-menus. Where there is a sub-menu this is indicated on the selection. All selections are made through keyboard entries; no provision has been made for use of the mouse in this version.

On start-up the system checks for the presence of the index files (with .NDX extension) and the memory file. If not present, the index and memory files are recreated, with the memory file defaulting to the settings as listed in Annex III.

Also on start-up the PACKTRAM system checks to see if the printer is connected, or on-line, if the user has selected in Menu 9 to work with a printer. If the printer is not engaged (either not connected or off-line) , the PACKTRAM system reverts to the "no printer" setting if a warning to turn the printer on is ignored by the user. The printer status is displayed at the bottom of most menus and sub-menus.

PACKTRAM.EXE is the compiled version of all the PRG program and procedure files. On start-up, the system initializes the public variables, resets some of the standard settings, and opens the main IAEADATA.DBF and the STATES.DBF files. Other data files are opened as they are required.

5.3. DATA ENTRY / REVISION / DELETION

The first three routines on the main menu allow complete control of the information for the main data file IAEADATA. DBF. Data should only be entered using the routines available with this system, and not directly with dBase, to reduce the possibility of inconsistent data. However, there may be cases where the electronic transfer of data from other file structures is desired and justified. In such cases, every effort should be made to ensure that data is consistent.

5.3.1. Entering a certificate

Selection 1 allows the entry of the complete data for a new record. The data is saved in temporary variables until all fields are completed. A choice is offered to complete the entry and transfer the data to the main IAEADATA.DBF file or not to enter the data. To escape from the data entry screen once it is on display, press ENTER on the first field with the entry blank. Once past the first field the entry must be completed to escape from the routine. To abandon the routine, dummy data has to be entered for the REVISION NUMBER and ISSUE and EXPIRY dates. At that point pressing CTRL + W can be used to jump through the entries. At the end, select not to save the data and the system will return to the main menu.

The package identification number will not be accepted for the CERTIFICATE NUMBER field unless there is a valid VRI code plus the first "/" at the start of the entry. Care should be taken to ensure that the correct VRI code is used (not one from a different country) and that the rest of the entry is accurate. The VRI code and country name must be in the system in the ANNEX1.DBF file before a certificate or a validation with that code can be added (see Section 5.6 on Maintenance and Re-indexing). The second "/" denotes the end of the unique number assigned by the competent authority issuing the certificate. The identifiers after the second slash should correspond to those required for competent authority identification marks listed in Safety Series No. 6. The system automatically converts any letter in this field to UPPER CASE.

The system will not accept a blank entry for the revision number of the certificate. If a revision number (also referred to as issue number) has not been assigned then revision "0" should be arbitrarily assigned. This has been done to reduce the probability of duplicate entries. The revision number is a character field so letters are valid. It is also case sensitive, for example, lower case "a" and upper case "A" are treated as different characters. If the certificate number plus the revision number already exist in the file, the entry will not be accepted. On entry the

revision number is right justified. Press ENTER to continue to the next field, if only one or two characters have been entered.

Once the revision number has been entered, the system automatically provides the country name. This is extracted from the ANNEX1.DBF file.

If the certificate being entered is a validation, then the competent authority identification mark of the certificate being validated and the revision number are entered next. The VRI code must be valid and a revision number entered if a certificate number is entered. The country of issue and validating country must be different. Once again, the system automatically provides the country name.

Next, the issue date and expiry date are entered. A blank cannot be entered and the date must be valid, with the date of issue preceding the expiry date. The date format used is "YYYY.MM.DD".

Once the dates have been correctly entered, the other fields for the record are displayed on the screen for the user to complete.

For "SAFETY SERIES" enter the version of Safety Series No. 6 on which the package approval is based. The possibilities are:

6/67	the 1967 Edition
6/73	the 1973 Edition
6/73AA	the As Amended version of the 1973 Edition
6/85	the 1985 Edition,
6/85AA	the 1990 As Amended version of the 1985 Edition.

The information in the IDENTIFICATION field should be the model number assigned to the package. This should be preceded by the owner's or manufacturer's name (short form, if necessary) to ensure that the identification number is unique.

The information in the SERIAL NUMBER field should be a list of serial numbers assigned to the approved packages; however, there may not be enough room. If desired, more information can be entered in the COMMENT fields.

For the transport modes for which approval is given, if the ALLMODES entry is completed as true "T", the modal entries SEA, AIR, ROAD and RAIL will automatically be made true and skipped. If ALLMODES is not true (.F.), then individual modal entries must be made.

From this point, it is possible to move among the rest of the fields and make appropriate entries and/or modifications. It is not possible to return to the first few fields up to and including transport modes.

The PACKAGE MASS must be in kilograms without decimals.

Under DESCRIPTION, for SHAPE the suggested possibilities are:

CYL	cylinder
DRUM	drum
RT.CYL.	right cylinder
CUBOID	
PARAL.	parallelepiped
RECT.	rectangular box

For dimensions, in fields LENGTH, WIDTH, DIAM. and HEIGHT use millimetre without decimals. Only those dimensions that are appropriate to the shape of the packaging are completed.

For GENERAL, provide information on the type of construction used, or special characteristics of the packaging. Some of the descriptive terms may have to be abbreviated to be accommodated in the limited space.

For CONTENTS enter the activity (in SI units) and isotope, and any other information which may be significant for which the packaging is approved. For more than one isotope, enter the most significant to the space available.

For REVISION REASON, the suggested possibilities include:

First issue, or original issue
Expiry date extended
To incorporate changes (limit or extend) to permitted contents
To incorporate design changes detailed in drawing no. ....

For TI FOR CRITICALITY decimals are allowed, if needed. If the package does not contain fissile material this field is left blank.

The DATE TO IAEA field is left blank. It will be entered automatically when the data file TOIAEA.DBF containing the latest updates is being prepared to send to the IAEA.

COMMENT1, COMMENT2 and COMMENT3 can be used to contain added information which might be gleaned from the certificate, such as permitted heat load, restrictions on the use of the package, or to contain information which may have been too long for the space provided elsewhere. The comments lines should be checked for information which may be missing from other fields.

Once all the entries have been made, the user is asked to confirm that data should be retained and added to the database. Press "Y" or ENTER to complete the entry or the space bar to return to the menu without entering the data into the main database file IAEADATA.DBF. If the SPACE BAR is pressed the information is lost.

5.3.2. Revising a certificate

Selection 2 allows the revision of the data for a certificate that has already been entered. The operation of this routine is almost identical to that for entering a new certificate.

If the user tries to change the certificate number and the revision number of a record already in the main IAEADATA.DBF file, the system will not allow the change.

When entering the certificate number, it is not necessary to enter the complete number unless required. If a partial certificate number (but not revision number) is entered the first record in the file that matches the entry will be located. For example if "CDN/E07" is entered without a revision number the first certificate starting with that number would be located. In essence to locate a specific entry it is only necessary to enter the certificate number up to and including that part that is unique. Normally, this would be the VRI code, the first "/" and the digits or letters up to but not including the next "/".

If the revision number is entered, the certificate number must be complete, or the certificate will not be located. This is because the index uses the concatenated certificate number and the revision number to locate the correct record quickly. Note that the revision number is

case-sensitive - if the revision number is going to be entered, it is important to use the upper or lower case to match what is in the file.

After making the necessary revisions, the user must confirm that the changes are to be retained by pressing "Y". If the changes are not to be retained, press the space bar.

5.3.3. Deleting a certificate

Selection 3 allows a record to be completely removed from the main IAEADATA.DBF file. In the case where a record is to be removed from the main IAEADATA.DBF file but retained in the archive IAEAARCH.DBF file, selection 8.1 would be used. Once a record has been removed from the main IAEADATA.DBF file (marked for deletion and file packed), it cannot be recovered unless it had been previously copied to the archive IAEAARCH.DBF file.

This routine displays the selected record to give the user an opportunity to ensure that the correct choice is made before deleting the record. Note that deleting a record does not automatically remove the record from the file. The file has to be packed for the record to be removed; the system asks the user to complete a deletion by asking to pack files. Press Y to confirm, SPACE BAR not to delete. It is possible to undelete a record using dBaseIII+, but this option has not been included in the PACKTRAM system.

As is the case in other routines, only as much of the certificate and revision numbers have to be entered to make the selection unique.

5.4. MENU 4 - PRINTING MENU

THE IAEA PACKTRAM DATABASE, PRINTING MENU

4.1	To print Table 1 Current Certificates
4.2	To print Table 2 Expired Certificates
4.3	To print Table 3 Current Validations
4.4	To print Table 4 Expired Validations
4.5	To print Table 5 Contents, Description
4.6	Table 6 By Country, Current & Expired
4.7	Appendix I VRI Codes, Appendix II States
4.8	Appendix III Numbers of Certificates
4.9	Appendix IV Blank Data Sheet
4.0	To Return to Main Menu

Selection ▒ (Use digit after decimal point)

Menu 4 prints the various tables required for the annual report, including the 4 appendixes. Selection 4.6 prints one complete listing by country, or a list for a specific country.

Sample printouts of all tables and appendixes for the annual report are shown in Annex IV.

Tables 1 and 2

Selections 4.1 and 4.2 produce Tables 1 and 2 for the annual report, respectively. Table 1 contains pertinent data on all current certificates while Table 2 contains data on recently expired certificates. These tables do not include the validation (endorsement) certificates. Only the latest revision of each certificate is included. Certificates will only be listed in either Table 1 (for current) or Table 2, but not both.

Tables 3 and 4

Selections 4.3 and 4.4 produce Tables 3 and 4 for the annual report, respectively. Table 3 contains the pertinent data on all current validations (endorsements), while Table 4 contains recently expired data. Only the latest revision of each validation is included. Validations will only be listed in either Table 3 (for current) or Table 4, but not both.

Table 5

Selection 4.5 produces Table 5 for the annual report. This table contains information on the mass, contents, and description for all certificates in the main IAEADATA.DBF file, including those that have expired.

For the Hewlett Packard LaserJet printer a very condensed font is used The output is 40 lines per page for the DIN-A4 paper and 46 lines for the North American paper.

For a dot matrix printer, 15-inch wide paper is required. A 60-line page length is used for both the DIN-A4 and North American paper.

Country listing, for both current and expired certificates

Selection 4.6 produces a list of both expired and current certificates (including validations) for any specific Member State or for all Member States, where there is data. The VRI code has to be entered if the output for a specific Member State is required.

When the complete listing is selected an additional line indicating the last date that data was submitted to the IAEA by each Member State is added to the header. This date is retrieved from the ANNEX1.DBF file. Headers are created for each page and a fresh page is started for a Member State if there is not enough space on the current page for a few lines of data.

Appendixes I and II

Selection 4.7 produces a listing of the VRI and ISO codes for the Member States listed in the ANNEX1.DBF file and also a listing of the names and addresses of the competent authorities contained in the STATES.DBF file.

Additional VRI codes and Member States can be added with the selections in Menu 6.

Appendix III

Selection 4.8 produces Appendix III for the annual report. This Appendix shows, by country, the numbers and sum of current and expired certificates, including validations, contained in the main data IAEADATA.DBF file.

When this selection is run a cut-off date for the annex must be entered. If this is left blank the current date is assumed. Any certificate that expires on or after the date entered is included in the current column. Any certificate that expired before the date entered is included in the expired

column. The totals for each country are determined by examining the VRI code in the certificate number. The certificate number is searched character by character until the "/" is found to determine the code, and then the expiry date is compared with the cut-off date. The country values are temporarily stored in the ANNEX1.DBF file before printing.

To print out a blank data sheet

Selection 4.9 will print out a blank data sheet (Appendix IV in the annual report) for use by those Member States who are not submitting their PACKTRAM data on diskette.

5.5. MENU 5 - TO PRODUCE ASCII FILES FOR ANNUAL REPORT

THE IAEA PACKTRAM DATABASE, OUTPUT FILE MENU

5.1 Table 1 Current Certificates
5.2 Table 2 Expired Certificates
5.3 Table 3 Current Validations
5.4 Table 4 Expired Validations

5.5 Table 5 Contents, Description
5.6 Table 6 By Country, Current & Expired

5.7 Appendix I VRI Codes, Appendix II States
5.8 Appendix III Numbers of Certificates
5.9 Appendix IV Blank Data Sheet

5.0 To Return to Main Menu

Selection ▒ (Use digit after decimal point)

Menu 5 is identical to Menu 4 except that the output is written on the hard disk as text files with a .TXT extension. The file names match the table number, for example TABLE1.TXT. The appendixes are called APPEN_1.TXT, APPEN_2.TXT, APPEN_3.TXT and APPEN_4.TXT. All files are placed in the PACKTRAM directory containing the DBF files. If a selection is repeated the older text file is overwritten without warning.

One complete listing of all countries or an individual file for a specific country can be produced with Selection 5.6. The file for a specific country is identified by TAB6 + the VRI code for that country and the TXT extension. For example, the file name for Canada would be TAB6CDN.TXT. If a file with an identical name is produced the old file is overwritten without warning.

5.6. MENU 6 - MAINTENANCE/RE-INDEX MENU

THE IAEA PACKTRAM DATABASE, MAINTENANCE MENU

6.1 To Re-index Files
6.2 To Right Justify Revision Numbers
6.3 To Output Complete Set of Data

6.4 To Add/Revise ANNEX1.DBF, VRI Code, Date
6.5 To Delete an ANNEX1.DBF Entry
6.6 To Add or Revise Addresses in STATES.DBF
6.7 To Delete STATES.DBF Entry

6.8 To Change Screen Colours
6.9 Information on Screen Colours

6.0 To Return to Main Menu

Selection ▒ (Use digit after decimal point)

To Re-index Files

Selection 6.1 recreates the indexes for the data files. Indexes are used to present data in a logical order for processing. If the index is not current for the file, results are unpredictable. If strange things occur, the first thing to try is to re-index the data files with Selection 6.1. This selection is automatically used by some other routines after changes have been made to data files.

When the re-indexing is being done, information on the screen will indicate progress being made. For a large file this could take some time depending on the speed of the computer.

If the system has to be reloaded from the backup disks and there are no indexes on the directory they will be recreated automatically on start-up.

To Right Justify Revision Numbers

Selection 6.2 right-justifies the revision number CRV and FRV fields in the IAEADATA.DBF and IAEAARCH.DBF files for improved appearance. This option has been added since previously submitted data was not right justified. It is important that the data be consistent as the revision number is used in the indexing.

To Output Complete Set of Data from the IAEADATA.DBF File

Selection 6.3 lists all the data in the main IAEADATA.DBF file or all of the data for a specific Member State. On the laser printer a font with a 27.28 pitch is used while the dot matrix printer requires 15" wide paper. The maximum width of characters on any page is 232. Since it takes 3 pages wide to list the 618 characters in each record approximately 80 to 90 pages are required for a 1000 record database.

This routine is only intended as a data check so would not be used very often. The consistency of the data in each record can be readily compared by visually scanning down the

columns. The last field has been truncated to make the information fit on the 3 different printouts, with the certificate number duplicated on the 2nd and 3rd printouts.

Annex V shows a sample printout.

To Add or Revise an Entry in ANNEX1.DBF

With selection 6.4 it is possible to revise the country name, VRI and ISO entries in the ANNEX1.DBF file. There is an option to add or revise an entry in the "STATES.DBF" file from selection 6.4 instead of having to go to selection 6.6. Selection 6.4 also permits the entries for the ending date for the period of the data submitted by each Member State, which is used to produce the listing from all countries for Table 6 of the annual report.

In the ANNEX1.DBF file, the COUNTRY field is allocated 28 spaces to accommodate the full Member State name. This is used in the identification of the country for the table in the annual report that shows the numbers of current and expired certificates. The information from the ANNEX1.DBF COUNTRY field is also used in the main IAEADATA.DBF file, to identify a certificate's country of origin from the VRI code in its identification mark (called CERTIFICATE NUMBER in the PACKTRAM system). The country of origin is displayed on screen in several routines as a check for correct data and in the data sheets. It never appears on printed tables. Hence, for space-saving reasons, it is only allocated 15 spaces in the main IAEADATA.DBF file and may appear truncated. This does not affect data processing.

The reason for this discrepancy is that originally, the country names for the IAEADATA.DBF file entries were hard-programmed in. Now they are extracted from the ANNEX1.DBF file which can be updated through the menus.

There must be an entry in the ANNEX1.DBF file before an entry can be made in the STATES.DBF file.

To Delete an ANNEX1.DBF Entry

Selection 6.5 deletes a complete entry in the ANNEX1.DBF. The entry in the STATES.DBF file must be deleted before the entry for that country is deleted in the ANNEX1.DBF file.

To Add or Revise Addresses in STATES.DBF

Selection 6.6 revises the competent authority name and address in the STATES.DBF file. An entry cannot be made in the STATES.DBF file without first making an entry in the ANNEX1.DBF file.

To Delete a STATES.DBF Entry

Selection 6.7 deletes a complete entry in the STATES.DBF file. The entry in the STATES.DBF file must be deleted before the entry for that country is deleted in the ANNEX1.DBF file.

To Change Screen Colours

Selection 6.8 is used to change the screen colours. Background and foreground colours are selected from an array of colours. Once a new set has been selected it can be saved in the memory file in the USER colour screen set. Initially, the USER set contains the default colours contained in the PRESET set. Provision has been made for 8 screens in each set. Some screens have identical colours.

The following sub-menu is used to change the sets of colours:

THE IAEA PACKTRAM DATABASE, COLOUR DEFAULTS MENU

6.8.0 To return to previous menu
6.8.1 To save present screens to temporary defaults
6.8.2 To load preset defaults to screens

6.8.3 To load user defaults to screens
6.8.4 To save present screens to user defaults
6.8.5 To load temporary defaults to screens
6.8.6 To display defaults

6.8.7 To Reinstall preset defaults

6.8.0 To Return to Previous Menu

Selection ▒ (Use digit after decimal point)

If the IAEAVER.MEM file is lost it is recreated automatically on start-up but the user and temporary colour sets are lost so have to be reselected if you want to use them.

The specific screen numbers used are as follows:

MENU	SCREEN	WHERE CALLED UP	MENU	SCREEN	WHERE CALLED UP
Main Menu	M	PACKTRAM.PRG	Menu 6-2	2	MAINTAIN.PRG
Menu 1	2	PACKTRAM.PRG	Menu 6-3	6	MAINTAIN.PRG
Menu 2	2	PACKTRAM.PRG	Menu 6-4	2	MAINTAIN.PRG
Menu 3	3	PACKTRAM.PRG	Menu 6-5	3	MAINTAIN.PRG
Menu 4	4	PACKTRAM.PRG	Menu 6-6	2	MAINTAIN.PRG
Menu 5	4	PACKTRAM.PRG	Menu 6-7	3	MAINTAIN.PRG
Menu 6	1	MAINTAIN.PRG	Menu 6-8	0	MAINTAIN.PRG
Menu 7	5	TRANLIST.PRG	Menu 6-9	2	MAINTAIN.PRG
Menu 8	5	UTILLIST.PRG	Menu 7-9	3	MAINTAIN.PRG
Menu 9	1	PACKTRAM.PRG	Menu 8-3	4	UTILLIST.PRG
Menu 6-1	2	MAINTAIN.PRG	Menu 8-6	4	UTILLIST.PRG
			Menu 8-7	4	UTILLIST.PRG

Unless otherwise indicated, sub-menus and calling menus have the same colour. It is possible to change the screen colours by creating a user set.

Information on Screen Colours

Selection 6.9 gives information on colour screens.

SET COLOUR TO fore1/back1, fore2/back2, border, background

The "SET COLOUR TO" command takes four parameters of which we are only concerned with the first three. The 1st parameter "fore1/back1" controls the display for "NORMAL" text, i.e., white text against a black background. The second parameter "fore2,back2" controls the display for "Enhanced" text. Enhanced text is used for full screen display such as input templates, and help-screen highlights which generally appears as reverse video, i.e, black text against a white background. The third parameters controls the border colour. The fourth parameter is for systems that control the background colour uniformly; it is not applicable to the PACKTRAM system program. It is only possible to have high-intensity colours for the foreground.

If the memory file is lost, the user set of colours is also lost. Then, on start-up, the memory file is recreated and the system reverts to the default settings.

5.7. MENU 7 - TRANSFER DATA MENU

THE IAEA PACKTRAM DATABASE, TRANSFER MENU

7.1 To Check Country Disk
7.2 To Transfer TOIAEA.DB File to Hard Disk
7.3 To Print Out TOIAEA.DBF File Listing

7.4 To Print Data Sheets for TOIAEA.DBF
7.5 To Check for Duplicate Entries
7.6 To Transfer Dup Recs to IAEAARCH.DBF

7.7 To Transfer TOIAEA.DBF to Main File
7.8 To Transfer Records to TOIAEA.DBF
7.9 To Zap TOIAEA.DBF (removes all records)

7.0 To Return to Main Menu

Selection ▒ (Use digit after decimal point)

This menu contains a series of routines that allow data from Member States to be processed for entry into the main database IAEADATA.DBF file.

See Section 4.1.2 for diskette requirements.

To Check Country Diskette

Selection 7.1 checks the diskette in the selected drive and displays the directory of files on that diskette. This selection should be used to check a Member State's diskette to ensure that there is a file on the diskette. However, it does not guarantee that the file is readable.

To Transfer a Member State's "TOIAEA.DBF" file to Hard Disk

Selection 7.2 copies the Member State's TOIAEA.DBF file (on diskette) to the internal hard drive in the computer.

To Print Out "TOIAEA.DBF" File Listing

Selection 7.3 prints out the records on the TOIAEA.DBF file once it has been copied to the hard drive. This is used to perform a partial check of the records in the TOIAEA.DBF file before appending the data to the main IAEADATA.DBF file. Attention should be paid to the certificate and revision numbers, and the expiry date to ensure that the information is an update of a record already on the IAEADATA.DBF file.

To Print Data Sheets for Records in TOIAEA.DBF

Selection 7.4 prints a complete set of data sheets for all records contained in the TOIAEA.DBF file on the hard disk. This routine can be used by the IAEA to produce the data sheets if the Member States have not sent them with the diskette. It can also be used by Member States to produce the data sheets.

When the data sheet is printed out the program will automatically insert the current date in the DTOIAEA field (date information sent to the IAEA) in the TOIAEA.DBF file, if the printer is turned on.

To List Duplicate Certificates on TOIAEA.DBF and IAEADATA.DBF

Selection 7.5 prints a list of records on the TOIAEA.DBF file that have duplicates in the main IAEADATA.DBF file. The revision numbers as well as the certificate numbers are listed. Those records that have to be removed from the main file before the new data is appended will be indicated. Selection 7.6 should give the same listing, but only as the records with earlier revision numbers are being transferred.

To Transfer Duplicate Records from IAEADATA.DBF to IAEAARCH.DBF

Selection 7.6 archives records which will be updated on the main IAEADATA.DBF file.

The system searches the TOIAEA.DBF file for the certificate number of the first record. It then searches the IAEADATA.DBF file for an identical certificate number but not revision number. If it finds a record that fulfills this condition, that record is moved to the archive IAEAARCH.DBF file. The process is repeated until each record has been checked. As the records are being archived the certificate and revision numbers are listed. A listing of the archived records is printed, if the printer is engaged. The printout should be identical to that obtained on Selection 7.5. At the end of the process the file is packed, that is, the archived records are deleted from the main IAEADATA.DBF file.

To Copy the Records on TOIAEA.DBF to IAEADATA.DBF

Selection 7.7 appends a copy of the information in the TOIAEA.DBF file to the main IAEADATA.DBF file. (Before doing this, Selection 7.6 should have been carried out.) The revision numbers are right justified, if not already done, before the records are copied. The information on the TOIAEA.DBF file is not deleted.

To Copy Records from IAEADATA.DBF to TOIAEA.DBF

Selection 7.8 is intended for use by Member States. It copies those records whose DTOIAEA field (date to the IAEA) is blank from the main IAEADATA.DBF file to the TOIAEA.DBF file on the hard drive. Records are not removed from the IAEADATA.DBF file. The DTOIAEA field in the IAEADATA.DBF file is completed with the current date. If desired, the TOIAEA.DBF file can be copied to a floppy diskette for submission to the IAEA. Note that if there is a file named TOIAEA.DBF on the floppy diskette, it will be overwritten without warning.

To Zap TOIAEA.DBF File (removes all records)

Selection 7.9 is intended for use by Member States. It removes all records from the TOIAEA.DBF file on the hard drive. Once the records have been successfully transferred to the floppy diskette the file is no longer needed. However, the file structure is retained.

5.8. MENU 8 - ARCHIVE AND UTILITY MENU

THE IAEA PACKTRAM DATABASE, UTILITY MENU

8.1 To Transfer a Single Record to Archives
8.2 To Transfer a Single Record from Archives
8.3 To Print Table of Archive Records
8.4 To Transfer Expired Records to Archives

8.5 To View a Certificate
8.6 To Print Copies of Programs

8.7 To Print a Single Data Sheet
8.8 To Copy a Record and Revise Copy
8.9 To Check Files for Duplicate Entries

8.0 To Return to Main Menu

Selection ▒ (Use digit after decimal point)

To Transfer a Single Record from IAEADATA.DBF to IAEAARCH.DBF

Selection 8.1 allows a single record to be transferred from the IAEADATA.DBF to the archives. The information in the record is displayed to ensure that a correct selection has been made. A record that has been selected is marked for deletion from the IAEADATA.DBF file and appended to the IAEAARCH.DBF file. On exit, any marked record is removed from the IAEADATA.DBF file.

To Transfer a Single Record from IAEAARCH.DBF to IAEADATA.DBF

Selection 8.2 allows a single record to be transferred from the archive IAEAARCH.DBF file to the main IAEADATA.DBF file. The information in the record is displayed to ensure that a correct selection has been made. A record that has been selected is marked for deletion from the IAEAARCH.DBF file and appended to the IAEADATA.DBF file. On exit, any marked record is removed from the IAEAARCH.DBF file.

To Print Out a Table of the Records in IAEAARCH.DBF

Selection 8.3 prints a list of all the records in the archive IAEAARCH.DBF file; a sample printout is shown in Annex VI.

To Transfer Multiple Records to the Archives

Selection 8.4 transfers records that expired before a given date from the main IAEADATA.DBF file to the archive IAEAARCH.DBF file. On exit, marked records are removed from the IAEADATA.DBF file.

There is a choice of archiving records that expired prior to either the last full calendar year (the system provides the cut-off date automatically), or to a date entered from the keyboard. This date cannot be less than 2 years from the current date. This limitation has been imposed to avoid accidental transfer of recently expired records. A list is made of the certificate and revision numbers of transferred records.

To View a Record

Selection 8.5 displays all the information in one record on one screen. The certificate number is entered to locate the desired record. The PgUp and PgDn keys can be used to cycle back and forth through the file that is temporarily indexed to the certificate number. There is a choice of selecting either the IAEADATA.DBF, IAEAARCH.DBF or TOIAEA.DBF files.

For a quick look at the entries for a specific country, it is sufficient to enter just the VRI code, and the first entry for that country will be displayed.

To Print a Copy of the Programs

Selection 8.6 prints a copy of the 60 program files. This includes the MENUPROC.PRG file which contains the 32 procedures. It also includes a copy of the INSTPACK.PRG which is compiled to make the INSTPACK.EXE, the installation program.

There is provision to add the path to the sub-directory containing the program files. Once entered, this path is saved in memory. If the default installation is used, this path will be C:\PACKTRAM\PROGRAMS.

The 60 programs used are :

ADDREVAN.PRG	COLORSAM.PRG	FROMARCH.PRG	SETUP .PRG
ADDREVST.PRG	COLORSCN.PRG	IAEADSK .PRG	TABLE1_2.PRG
ALLCNTRY.PRG	COLORSET.PRG	PACKTRAM.PRG	TABLE3_4.PRG
ANN2 .PRG	COLORDEF.PRG	LSTSTATE.PRG	TABLE5_ .PRG
ANNEX2 .PRG	COLORDIS.PRG	MAINTAIN.PRG	TABLEARC.PRG
ANNEX_1 .PRG	COLORINF.PRG	MAINTRAN.PRG	TABLIST .PRG
AUTOTRAN.PRG	COLORNEB.PRG	**MENUPROC.PRG**	TENTRY .PRG
BLKDATA .PRG	DATACHCK.PRG	PRTINFO .PRG	TOARCH .PRG
BYCNTRY PRG	DATAOUT .PRG	PRINTPRG.PRG	TOARCH2Y.PRG
CERTDEL .PRG	DATASHT .PRG	PRTFILE .PRG	TRANLIST.PRG
CERTENT .PRG	DATASHTS.PRG	PUBVARS .PRG	TXTFILES.PRG
CERTREV .PRG	DELANNEX.PRG	QTRAN .PRG	UTILLIST.PRG
CHECKDSK.PRG	DELSTATE.PRG	QUITBACK.PRG	VRITONAM.PRG
CHECHDUP.PRG	DISPREC .PRG	RECCOPY .PRG	ZATOIAEA.PRG
CHFORDU.PRG	FILETRAN.PRG	REINDEXF.PRG	INSTPACK.PRG

To Print a Single Data Sheet

Selection 8.7 prints a data sheet containing all the information on any given certificate. This includes the name of the issuing Competent Authority; which through the VRI code is taken from the addresses in the STATES.DBF file. The output is similar to that of Selection 7.4 except that Selection 7.4 prints out a series of data sheets for all the entries in the TOIAEA.DBF file.

For the IAEA version of the system, the current date will be automatically entered in the DTOIAEA field (date to the IAEA) in the main IAEADATA.DBF file, if this has not been previously done and the printer is open.

For the Member State version of the system the DTOIAEA field (date to the IAEA) is not completed when this routine is used. This field is left blank in the Member State version until those records with a blank DTOIAEA field are copied from the IAEADATA.DBF file using Selection 7.8

The choice of either the IAEA or Member State version of the system can be made with Selection 9.7.

To Copy a Record and Revise That Record

Selection 8.8 copies a record from either the main IAEADATA.DBF file or the archive IAEAARCH.DBF file into the main file and then requires that the certificate and revision numbers be entered. This is useful when adding a validation to the main IAEADATA.DBF file where there is at least one validation of the same certificate already in the files. It is also useful where two certificates are almost identical.

Check for Duplicate Records in Files

Selection 8.9 performs a check of the IAEADATA.DBF or IAEAARCH.DBF or TOIAEA.DBF files for any duplicate records. While there are various checks in the system to avoid having duplicate records on the main IAEADATA.DBF file it is still possible to transfer duplicate records to the file. This routine should be run occasionally, especially if there is some reason to suspect that duplicate records are present.

A check is also made for records that have a blank certificate number and the record number printed out. A record without a certificate number is considered a blank. If desired, the blanks can be removed from the file.

It does not necessarily mean if a record is printed out that an error has occurred. If one certificate number is contained in another this will be indicated on the printout. For example, B/30/B(U) and B/30/B(U)F are correct numbers and are valid entries, but will nevertheless appear on the listing.

This routine also has a provision for the IAEAARCH.DBF file to delete duplicate records. If a Member State resubmits identical data, duplicate records will eventually appear in the archive file as the newer entries expire.

5.9. MENU 9 - PRINTER/VERSION/PAGE SETUP MENU

Select 9 calls up the Setup Menu which allows resetting of the default values for the printer, page length, printer port, paper size and version.

THE IAEA PACKTRAM DATABASE, SETUP MENU

9.1 To Work Without a Printer
9.2 To Select the IBM Proprinter Printer
9.3 To Select the HP LaserJet Printer

9.4 Information on Printer
9.5 To Select the Printer Port (LPT1 or LPT2)
9.6 To Select Page Size (American or A4)

9.7 To Select IAEA or Member State Version
9.8 (unassigned)
9.9 About this Version

9.0 To Return to Main Menu

Selection ▒ (Use digit after decimal point)

Printer Selection

The printer can be set on or off. If the printer is set to ON listings will be displayed on the screen and also directed to the printer. This does not include all screen information. If set OFF, listings will only be displayed on the screen. The printer cannot be set to ON if there is not a printer on the system. If there is no printer or it is not turned on and the printer option is selected, a warning will be given. If the printer is not engaged at this point, the system will be set to operate without a printer.

The Hewlett Packard LaserJet setting will work with many HP printers provided that they have the appropriate fonts; The HP International Cartridge 922861C contains the needed fonts and may be necessary for some HPII and HPIII models. The required fonts are available with HP 4P and 4SI models..

Depending on the selection, the program can be run with or without a printer. All the programs will work even if the printer is not engaged. If the printer setting in Menu 9 is "on" but the printer is off-line or turned off, the system will ask for the printer to be put on line. If this message is ignored, the system will set itself to work without a printer, i.e., all listings will only be displayed on the screen.

The printer port setting can be changed to LPT1 or LPT2. If there is only either a local or network printer the setting will probably be LPT1. If both a local and network printer are available, LPT1 will probably be the setting for the local printer and LPT2 for the network printer.

When the printer is not on, the DTOIAEA field (date to the IAEA) is not completed with selections 7.4 and 8.7.

Information on Printer

Selection 9.4 gives detailed information about printers and fonts that have been selected for the PACKTRAM system database.

To Select the Printer Port (LPT1 or LPT2)

Selection 9.5 allows the printer port to be set. Normally it will be set to LPT1, the default value. If a user has access to both a local and a network printer, he will have to change ports to send print requests to the desired printer. Use care in selecting the port. If an invalid port is selected the system may stop with an unrecoverable error, or may not print even though the printer may be indicated to be on.

To Select Page Size (American or A4)

Selection 9.6 allows the choice between North American letter size (8-½ inch x 11 inch) and DIN A4 (21 cm x 29.7 cm) paper. The paper size determines the maximum number of lines printed per page in the portrait orientation. For DIN A4, it is 64 lines per page while for American letter size it is 60 lines per page. For landscape orientation, the number of lines per page is set regardless of paper size to 40 lines of data plus the column titles per page.

To Select IAEA or Member State Version

Selection 9.7 offers the choice to set up the system for use by either the IAEA or the Member States. The only difference in these versions is in Selection 8.7. With the IAEA version the DTOIAEA field (date to the IAEA) is completed in the IAEADATA.DBF file if the field is blank when a data sheet is printed. In the Member State version no entry is made. The status of this field determines which records are selected to send to the IAEA.

About this Version

Selection 9.9 gives information on a contact address for further system information.

5.10. MENU 0 - TO BACKUP/QUIT MENU

THE IAEA PACKTRAM DATABASE, BACKUP/QUIT MENU

0.1 To Backup IAEADATA.DBF
0.2 To Backup IAEAARCH.DBF
0.3 (unassigned)
0.4 (unassigned)

0.5 To Backup both STATES.DBF and ANNEX1.DBF
0.6 To Backup TOIAEA.DBF
0.7 To Backup IAEAMAIN.EXE and IAEAVER.MEM
0.8 To Copy DBF files - Floppy to Hard Drive

0.9 To Quit

0.0 To Return to Main Menu

Selection ▒ (Use digit after decimal point)

Menu 0 is used for backing up information that is on the hard disk and to quit the system. There are various options for backing up, which should be done regularly. If one cannot afford to lose information it should be backed up. In the event that information on the hard drive is destroyed, someone with knowledge of the hardware should be consulted.

All the backup routines in this program are done with the "copy" and not the "backup" command. This means that the contents have to fit on a single diskette, except for selections 0.1 and 0.2 which automatically split the files depending on their size. The option of selecting either floppy diskette drive "A" or "B" is available.

There are no routines to back up index files. If these are not present at startup they will be created automatically; they can also be created with Selection 6-1 whenever desired.

No routines are available to backup the PRG files as these are provided for information only.

To Backup IAEADATA.DBF and IAEAARCH.DBF

Selections 0.1 and 0.2 allow you to backup the main IAEADATA.DBF data file and the archive IAEAARCH.DBF file, respectively. Except for the appropriate file names the routines are identical as they use the same code.

Selection 0.1 checks the diskette that is inserted in the floppy diskette drive to see if there is an old copy of the main IAEADATA.DBF (archive IAEAARCH.DBF for Selection 0.2) file on it. If there is, you are given an option to delete the file. The routine then checks if there is enough space on the diskette for the file being backed up. If there is enough space, the backup is completed. If there is not enough space the routine will check to see if the file can be split into two equal parts and backed up on two floppy diskettes. In this case, the second diskette is also checked for space availability. If there are other files on the diskettes the backup may not be successful. It is best to start with empty high density diskettes.

There is no routine to split the file into more than 2 parts as there will be a limit on how big the file gets.

When the main IAEADATA.DBF file is split into 2, the backup files are named DATAUP1.DBF and DATAUP2.DBF (ARCHUP1.DBF and ARCHUP2.DBF for the archive IAEAARCH.DBF file). No routine has been included to recombine these files if it is necessary to restore the data from the backup copies. In that case dBaseIII+ procedures should be used (create a new IAEADATA.DBF file using COPY STRUCTURE, then APPEND contents of the backup files onto the new IAEADATA.DBF file. Care should be exercised in using the dBaseIII+ APPEND command as some non-English characters can be dropped during the transfer.). Even though the routines are compiled into an EXE program using Clipper, the file structures are still of the dBaseIII+ format.

If the archive IAEAARCH.DBF file eventually grows too large for 2 diskettes, then the older records should be removed. If duplicate entries are added to the system, you will end up with duplicate records on the archive file. These duplicate records can be removed with Selection 8.9.

Selections 0.5 to 0.7

Routines are available to backup the PACKTRAM.EXE and IAEAVER.MEM files, and the STATES.DBF, ANNEX1.DBF and TOIAEA.DBF data files. No routine is provided to check

available space since these files will readily fit on one diskette. Restoring these files on the hard drive with the DOS "COPY" command is straightforward.

To Copy DBF Files from Floppy Diskette to Hard Drive

Selection 0.8 has a simple routine to copy data files with the DBF extension from a floppy diskette in either the A: or B: drive to the hard drive. This is only suitable to restore the DBF files when a single diskette for the back-up was required. If the back-up required the file to be split and copied onto two diskettes, the procedure outlined for Selections 0.1 and 0.2 should be followed.

Caution is necessary with the use of this routine as the data on the hard drive will be overwritten. A double check is made to ensure that this operation is really that which the user intends.

To Quit

Selection 0.9 closes all files and ends system operations.

6. TROUBLESHOOTING

In case problems occur while running the PACKTRAM system program, the following are some hints to relieve the situation.

PROBLEMS ON START-UP

If you have problems with memory variables on starting, you may have to delete the memory file and re-start.

RE-INDEX

If strange things are happening do not be alarmed. The first thing to do is re-index the database files using Selection 6-1, and then retry. If data is entered or changed outside the system then re-indexing must be performed before using any of the routines. If in doubt - re-index.

If the index files and the memory file are missing on start-up, they will be recreated. However, color settings, printer setting, IAEA or Member State version, portrait page length, and path for printing the documentation will be lost. Use Selection 6-8 to change default colours and change individual screen colours.

ESCAPE KEY

When the "escape" key is used to terminate whatever operation is taking place the "reset" procedure in the MENUPROC.PRG file is invoked. If the printer was engaged, this resets the printer to its normal as turned on settings; closes data files TOIAEA.DBF, IAEAARCH.DBF and ANNEX1.DBF if they are open; resets STATES.DBF and IAEADATA.DBF; ejects a page if necessary; and then returns to the main menu. The use of the escape key will normally terminate printing at any point. After the key is pressed the contents of the printer buffer will still be printed. The reset does not affect the "on/off" setting for the printer.

FILE LOCATION

In those programs where files are copied to or from a floppy disk, except for the "PRG" files, all files must be on the working directory.

FAILURE TO PRINT

If the printer is set to print and does not, check the port selected to ensure that it is a valid port. If an invalid port is selected the system may stop working, or appear to be working but will not print. If the PACKTRAM system stops working you may have to delete the memory file to restart as the printer port is retained in memory.

PRINTER CODES

Most of the printer codes are included in the procedure file called MENUPROC.PRG. These codes are set for a standard dot matrix or LaserJet printer using an international fonts cartridge for the 232-wide character output. Except for Table 5 and the data checking routines, the laser printer codes will probably work on most laser printer that accept the Hewlett Packard codes.

In producing the borders for Appendix III and Appendix IV the font must be changed for each line. Consequently, printer codes have been written directly into programs BLKDATA.PRG and ANN2.PRG. This information is only of interest to more sophisticated users who may wish to adapt the PACKTRAM system for other purposes.

SHARE.EXE

If the DOS program SHARE.EXE is loaded into memory while the PACKTRAM system is being run, serious problems will develop in the manipulation of files. This will happen in several of the routines. You can check to see if SHARE is loaded with the DOS MEM command such as "MEM /c \more" in DOS 5.0 or higher. If SHARE is present you may have to temporarily revise your AUTOEXEC.BAT file to prevent it being loaded. It could also be loaded through one of the INI files if you run WINDOWS. INI files shouldn't be adjusted manually unless one understands the consequences.

SYSTEM ABORTS

If, when running the program, an error occurs and the program hangs up or aborts it would be useful to make a note of the steps that caused the problem. Inform the IAEA so that assistance can be given and, where necessary, corrective action can be taken.

EXITING THE SYSTEM

Always exit from the system by returning to the main menu and selecting the "0-9" option. This routine closes all files before exiting the system and thus reduces the risk of losing some or all of the data that was recently entered or revised. It also avoids the possibility of losing a complete file that has been left open.

REFERENCES

[1] INTERNATIONAL ATOMIC ENERGY AGENCY, Regulations for the Safe Transport of Radioactive Material, 1985 Edition (As Amended 1990), Safety Series No. 6, STI/PUB/866, IAEA, Vienna (1990).

[2] INTERNATIONAL ATOMIC ENERGY AGENCY, Directory of national competent authorities' approval certificates for package design, special form material and shipment of radioactive material, IAEA-TECDOC- , IAEA, Vienna (updated annually).

[3] INTERNATIONAL ATOMIC ENERGY AGENCY, National Competent Authorities responsible for Approvals and Authorizations in respect of the Transport of Radioactive Material, NCAL, IAEA, Vienna (updated annually).

ANNEX I
STRUCTURE OF DATA FILES

FIELD NAME	FIELD TYPE	FIELD WIDTH	DESCRIPTION
CERT	Character	19	Competent authority identification mark
CRV	Character	3	Revision number of competent authority identification mark
CERTCTRY	Character	15	Country issuing certificate
F	Character	1	Fissile class (note: no longer used)
ISSUED	Date	8	Date of issue
EXPIRY	Date	8	Date of expiry
DTOIAEA	Date	8	Date sent to IAEA, or date IAEA entered info
PKID	Character	32	Package identification (model number)
PKNO	Character	14	Approved serial numbers (blank, if not specified)
ALLMODES	Logical	1	Approved for all modes of transport
RAIL	Logical	1	Approved for rail transport
ROAD	Logical	1	Approved for road transport
AIR	Logical	1	Approved for air transport
SEA	Logical	1	Approved for sea transport
SSERIES	Character	7	Edition of IAEA Safety Series No. 6 complied with
CONTENTS	Character	66	Brief description of contents
DESCRIP2	Character	66	Type of construction, special package characteristics
MASS	Numeric	7	Mass of package (kg), no decimal allowed
ALLOWNO	Character	4	Transport Index (TI) for criticality
RREASON	Character	60	Reason for revision
FCERT	Character	19	Competent authority identification mark of certificate being validated
FRV	Character	3	Revision number of certificate being validated
COUNTRY	Character	15	Country issuing certificate that is being validated
COMMENT1	Character	66	Line 1 of comments
COMMENT2	Character	66	Line 2 of comments
COMMENT3	Character	66	Line 3 of comments
SHAPE	Character	7	Shape of package
LENGTH	Numeric	5	Length of package (mm), no decimal allowed
WIDTH	Numeric	5	Width of package (mm), if applicable, no decimal allowed
DIAMETER	Numeric	5	Diameter of package (mm), if applicable, no decimal allowed
HEIGHT	Numeric	5	Height of package (mm), if applicable, no decimal allowed
SHIELD	Character	18	Shielding material
CASING	Character	18	Outer casing of package
Total no. of characters per record		619	Including one byte for "deleetd" flag

Structure of IAEADATA.DBF (main file), TOIAEA.DBF (Member State's updated information) files and IAEAARCH.DBF (IAEA archive files)

FIELD NAME	FIELDTYPE	FIELD WIDTH	DESCRIPTION OF FIELD
VRI	Character	3	VRI Code
ADL1	Character	60	Address, Line 1
ADL2	Character	60	Address, Line 2
ADL3	Character	60	Address, Line 3
ADL4	Character	40	Address, Line 4
ADL5	Character	30	Address, Line 5

Structure of STATES.DBF (contains addresses of competent authorities submitting data to the PACKTRAM database)

FIELD NAME	FIELD TYPE	FIELD WIDTH	DESCRIPTION OF FIELD
VRI	Character	4	VRI Code
COUNTRY	Character	28	Country
ISO	Character	4	ISO Code
PENDATE	Date	8	End date for period for which data submitted by Member State
CUR	Numeric	4	Temporary storage for number of current certificates for printing Appendix II
EXP	Numeric	4	Temporary storage for number of expired certificates for printing Appendix II

Structure of ANNEX1.DBF (contains Vehicle Registration Identification and International Standards Organization codes of IAEA Member States)

ANNEX II
INDEX FILES

DATABASE	INDEX NAME	STRUCTURE
IAEADATA.DBF	CERT.NDX	CERT + CRV
	FCERT.NDX	FCERT + FRV + CERT + CRV
	EXPIRY.NDX	EXPIRY
STATES.DBF	VRI.NDX	VRI
TOIAEA.DBF	TOCERT.NDX *	CERT
IAEAARCH.DBF	ARCHCERT.NDX	CERT + CRV
ANNEX1.DBF	COUNTRY.NDX	COUNTRY
	ANNEXVRI.NDX	VRI code

* Recreated each time it is used.

ANNEX III
MEMORY FILE

VARIABLE	DEFAULT	POSSIBLE VALUES	COMMENT
memprter	N	N none P dot matrix L HP Laserjet T ASCII text	printer setting
memdate	date()	any date	date system last used
memver	A	A IAEA M Member State	IAEA or Member State version
mempthpd	blank	any path	28 char-path to "PRG" files
mempage	DIN-A4	DIN-A4 AMERICAN	setting for A4 (21cm x 29cm) or letter size (8½" x 11") paper
mempage1	64	64 60	maximum number of lines on page for portrait orientation
mempage2	40	40 46	maximum number of lines per page for landscape orientation on LaserJet printer or when printing to text file
mempage3	60	60 60	maximum number of lines per page for landscape orientation with dot matrix printer
memport	LPT1	LPT1 LPT2	printer port
memcolorM memcoldM	+W/G, +GR,W	As selected by selection 6.8	screen setting default set (on monochrome monitor all colorsets are set to black and white
memcolor0 memcold0	W/N, W/W, N		
memcolor1 memcold1	+W/B, +W/GR, W		
memcolor2 memcold2	+W/BG, +W/GR,W		
memcolor3 memcold3	+W/GR,+GR/G, W		
memcolor4 memcold4	+B/W,+B/BG,W		
memcolor5 memcold5	+W/B,BG/N,W		
memcolor6 memcold6	+W/G,+B/W,W		
memcoluM	+W/G, +GR,W	These screen colour variables can be set to any of the colorsets in selection 6.8	On a monochrome monitor all colorsets are set to black and white
memcolu0	W/N, W/W, N		
memcolu1	+W/B, +W/GR, W		
memcolu2	+W/BG, +W/GR,W		
memcolu3	+W/GR,+GR/G, W		
memcolu4	+B/W,+B/BG,W		
memcolu5	+W/B,BG/N,W		
memcolu6	+W/G,+B/W,W		

Variables in memory file

Procedure for customizing colour settings

Step 1: The hard coded defaults are read in from procedure PRESETCO.
Step 2: These values are then transferred to the screens with procedure PSDTOSCN.
Step 3: The screen values are also transferred to the user defaults with procedure SCNTOUSR.

As soon as a memory variable is changed the memory file is resaved. The memory file is used in the following files:

PACKTRAM.PRG - date, version, page size, port
COLORDEF.PRG - to save colour settings
COLORDIS.PRG - to save colour settings
PRINTPRG.PRG - to save path for documents
QUITBACK.PRG - to back up
MENUPROC.PRG - procedures RESET (restores all settings) and PRTERCHK (printer setting).

ANNEX IV
SAMPLE PRINTOUTS OF ALL TABLES USED IN ANNUAL REPORT

TABLE 1 - LISTING FOR CURRENT CERTIFICATES

CERTIFICATE NUMBER	REV	ISSUE DATE	EXPIRY DATE	PACKAGE IDENTIFICATION	PACKAGE SERIAL NUMBERS	MODES R A S A O I E T A R A L D	SAFETY SERIES NUMBER
A/101/S	1	1993.12.23	1996.12.31	SG2	ALL	X X X X	6//3AA
A/103/S	1	1993.12.23	1996.12.31	SG 3	ALL	X X X X	6/85AA
A/104/S	0	1993.12.23	1996.12.31	SG6-1	ALL	X X X X	6/85AA
A/105/S	0	1993.12.23	1996.12.31	SG6-2	ALL	X X X X	6/85AA
A/106/S	0	1993.12.23	1996.12.31	SG6-3	ALL	X X X X	6/85AA
A/107/S	0	1993.12.23	1996.12.31	SG6-4	ALL	X X X X	6/85AA
A/108/S	0	1993.12.23	1996.12.31	SG10-1	ALL	X X X X	6/85AA
A/109/S	0	1993.12.23	1996.12.31	SG10-2	ALL	X X X X	6/85AA
A/8801/S	1	1992.10.09	1995.10.15	CUP	ALL	X X X X	6/85
AUS/02/B(M)	3	1993.01.13	1998.01.12	AAEC 200	AAEC/200/1	X X X	6/85
AUS/03/B(M)	3	1993.01.13	1998.01.12	AAEC 1300	AAEC 1300/1	X X X	6/85
AUS/04/B(U)-85	3	1991.01.01	1996.01.01	AAEC 2100		X X X X	6/85
AUS/05/S	2	1993.06.30	1998.06.30	AAEC TYPE 05	ALL	X X X X	6/85
AUS/06/S	2	1993.06.30	1998.06.30	AAEC TYPE 06		X X X X	6/85
AUS/07/S	2	1993.06.30	1998.06.30	AAEC TYPE 07	ALL	X X X X	6/85
AUS/08/S	2	1993.06.30	1998.06.30	AAEC TYPE 08	ALL	X X X X	6/85
AUS/09/S	2	1993.06.30	1998.06.30	AAEC TYPE 09	ALL	X X X X	6/85
AUS/10/S	2	1993.06.30	1998.06.30	AAEC TYPE 10	ALL	X X X X	6/85
AUS/11/S	2	1993.06.30	1998.06.30	AAEC TYPE 01	ALL	X X X X	6/85
AUS/12/S	2	1992.05.21	1997.05.21	AAEC TYPE 02	ALL	X X X X	6/85
AUS/17/B(M)	1	1993.01.13	1998.01.12	AAEC 2400	AAEC/2400/1	X X X	6/85
AUS/18/B(U)	2	1994.08.11	1999.07.04	AAEC 2600		X X X X	6/85
AUS/19/S	1	1992.06.24	1997.06.24	AAEC TYPE 13	ALL	X X X X	6/85
AUS/20/B(U)F-85	1	1991.05.20	1996.05.19	LHRL 120		X X X	6/85
AUS/21/B(M)	1	1993.01.13	1998.01.12	AAEC 2000		X X X	6/85
AUS/22/S	1	1992.06.24	1997.06.24	AAEC TYPE 12	ALL	X X X X	6/85
AUS/23/S	1	1992.06.24	1997.06.24	AAEC TYPE 17	ALL	X X X X	6/85
AUS/26/B(U)-85	1	1993.10.18	1998.10.15	ANSTO 2800	2800/1 - 20	X X X X	6/85

TABLE 2 - LISTING FOR EXPIRED CERTIFICATES

CERTIFICATE NUMBER	REV	ISSUE DATE	EXPIRY DATE	PACKAGE IDENTIFICATION	PACKAGE SERIAL NUMBERS	MODES R A S A O I E T A R A L D	SAFETY SERIES NUMBER
B/013/S	2	1992.07.28	1995.08.13	G 4	ALL	X X X X	6/73AA
B/014/S	2	1992.07.28	1995.08.14	G 1	ALL	X X X X	6/73AA
B/015/S	2	1992.07.28	1995.08.07	G 3	ALL	X X X X	6/73AA
B/19/F	6	1992.04.01	1995.04.04	FS 13	ALL	X X X X	6/73AA
B/27/B(U)F	10	1992.11.12	1994.10.07	NT 8/1		X X X X	6/73AA
B/30/B(U)	11	1992.12.06	1995.07.02	TNR 0145		X X X X	6/73AA
B/41/B(U)F	3	1992.06.12	1995.07.02	TN 6-01	ALL	X X X X	6/73AA
B/47/B(U)F	1	1991.11.08	1994.07.31	SNR 300		X X X X	6/73AA
CDN/0011/S	2	1991.11.20	1995.06.30	C-161 TYPE B, C-1000 CAPSULES	ALL	X X X X	6/73AA
CDN/1014/B(U)	7	1992.04.27	1995.07.31	NORDION GAMMABEAM 100	1,3,4	X X X X	6/73AA
CDN/2010/B(U)	10	1994.03.18	1995.04.30	NORDION GAMMABEAM 150	ALL	X X X X	6/73AA
CDN/2019/B(U)	6	1994.03.18	1995.04.30	NORDION GAMMACELL 20	ALL	X X X X	6/73AA
CDN/2042/B(U)	13	1992.06.26	1995.06.30	NORDION F245	ALL	X X X X	6/73AA
CDN/2055/B(U)-85	2	1993.01.08	1995.06.30	NORDION F-339	ALL	X X X X	6/85AA
CDN/2057/B(U)	1	1992.04.03	1994.02.28	OH PRESSURE TUBE SAMPLE PACKAGE	ALL	X X X X	6/73AA
CDN/3010/B(M)	8	1992.11.25	1994.11.30	OCI QUAD Co60	ALL	X X X X	6/73AA
CDN/3011/B(M)	4	1992.06.05	1995.06.30	PROT PKGNG PAPER TIGER OVERPACK	ALL	X X X X	6/73AA
CDN/5100/XT	6	1993.09.17	1994.01.31	NRC RADIAC CALIBR MODEL AN/UDM1A		X X	
CDN/5188/XT	0	1993.05.31	1995.05.31	SCRAP METAL	ALL	X	6/73AA
CDN/5192/XT	0	1993.09.30	1994.01.31	USDOT 20WC-2 OVERPACK		X	
CDN/5193/XT	0	1994.04.08	1994.12.31	BUDD MULTITRON 160 WITH 20WC		X	6/85AA
CDN/5194/XT	1	1994.11.24	1995.05.31	NAC/NLI-6502 SHIPPING CASK		X	6/85AA
CDN/5195/XT	0	1993.11.17	1994.05.31	COMBUSTION ENG. MODEL UNC-2901		X	6/67AA
CDN/5196/XT	0	1994.09.30	1994.11.22	F127/F168/F205/MAPLE-1B		X	6/73AA
CDN/5197/XT	0	1994.10.19	1995.03.31	NORDION GAMMACELL 500 IRRADIATOR		X X	6/85AA
CH/221/X	3	1994.07.12	1994.12.31	GS-E-1		X	6/85AA
D/0020/S	2	1990.05.30	1995.05.30	AMS 3800, AMS 3804		X X X X	6/85
D/0043/S	0	1989.11.01	1994.11.01	ALPHA STRAHLER VZ-1232		X X X X	6/85

TABLE 3 - LISTING BY VALIDATION NUMBER FOR CURRENT CERTIFICATES

REVALIDATION OF	REV	CERTIFICATE NUMBER	REV	EXPIRY DATE	PACKAGE IDENTIFICATION	PACKAGE SERIAL NUMBERS	MODES R A I L	R A O D	I A	S E R A	SAFETY SERIES NUMBER
AUS/20/B(U)F-85	1	USA/0389/B(U)F-85	1	1996.05.19	MODEL LHRL-120					X	6/85
B/18/B(U)	6	F/726/B(U)	Aa	1996.04.19	AGNES P		X	X	X	X	6/73AA
	6	NL/0067/B(U)	1	1996.04.19	AGNES P	ALL	X	X	X	X	6/73AA
	7	D/3099/B(U)	1	1996.04.19	Agnes P						6/85
B/21/B(U)	6	F/725/B(U)	Aa	1996.04.19	AGNES N		X	X	X	X	6/73AA
	6	NL/0068/B(U)	1	1996.04.19	AGNES N	ALL	X	X	X	X	6/73AA
	7	D/3100/B(U)	1	1996.04.19	Agnes N						6/85
CDN/0010/S	0	NL/0096/S	0	1996.03.31	NORDION C-188 CAPSULE		X	X	X	X	6/73AA
CDN/1002/B(U)	13	USA/6214/B(U)	11	1997.02.28	AECL/NORDION F-112 AND F-113		X	X	X	X	6/73AA
CDN/1003/B(U)	8	USA/0089/B(U)	7	1998.05.31	NORDION F-146 SOURCE CHANGER	ALL	X	X	X	X	6/73AA
CDN/1029/B(U)	10	USA/0131/B(U)	7	1998.04.30	NORDION F-254, F-296 SOURCE CHAN	SEE CERT.!	X	X	X	X	6/73AA
CDN/2003/B(U)	10	D/3090/B(U)	0	1996.03.31	F-143 or F-158 Transfer Case						6/85
CDN/2003/B(U)T	10	USA/6217/B(U)	11	1996.03.31	THERATRONICS F-143, F-158		X	X	X	X	6/73AA
CDN/2005/B(U)	10	A/9404/B(U)	0	1996.05.31	NORDION F-144 AND F-144-AC	1,3,5,9	X	X	X	X	6/85AA
	10	USA/6050/B(U)	10	1996.05.31	NORDION F-144; F-144-AC	1,5,9; 3	X	X	X	X	6/73AA
CDN/2008/B(U)	10	USA/6162/B(U)	14	1996.11.30	NORDION F-127 J-ROD	49 AND UP	X	X	X	X	6/73AA
CDN/2009/B(U)	9	USA/6355/B(U)	11	1998.11.30	THERATRONICS F-147	1 TO 60	X	X	X	X	6/73AA
CDN/2012/B	18	NL/0006/B(U)	4	1996.03.31	NORDION F168		X	X	X	X	6/73AA
CDN/2012/B(U)	18	D/3067/B(U)	3	1996.03.31	F-168 Shipping Flask	see comment1					6/85
	18	USA/6306/B(U)	12	1996.03.31	NORDION F-168 SHIPPING FLASK	SEE COMMENTS	X	X	X	X	6/73AA
CDN/2013/B(U)	8	CH/8041/B(U)	0	1995.10.31	NORDION GAMMACELL 220	ALL	X	X	X	X	6/85AA
	8	D/3098/B(U)	0	1995.10.31	Gammacell 220 Irradiator						6/85
	8	USA/6125/B(U)	9	1995.10.31	NORDION GAMMACELL 220	1 TO 194	X	X	X	X	6/73AA
CDN/2014/B(U)	7	USA/6350/B(U)	8	1996.01.31	NORDION GAMMABEAM 650 IRRADIATOR		X	X	X	X	6/73AA
CDN/2028/B(U)	8	USA/0132/B(U)	6	1996.09.30	AECL Gammacell 40 Irradiator		X	X	X	X	6/73AA
CDN/2037/B(U)	7	D/3070/B(U)	1	1995.10.31	F-247 Shipping Container		X	X	X	X	6/85
	7	USA/0125/B(U)	6	1995.10.31	Nordion International F-247		X	X	X	X	6/73AA
CDN/2039/B(U)	13	USA/0061/B(U)	13	1997.03.31	ELDORADO 76,78 AND MORE ...		X	X	X	X	6/73AA
CDN/2042/B(U)	14	USA/0124/B(U)	9	1997.06.30	Nordion International F-245		X	X	X	X	6/73AA
CDN/2043/B(U)-85	16	USA/0126/B(U)-85	11	1998.02.28	NORDION F-251, F-318, F-327 OVER		X	X	X	X	6/85

TABLE 4 - LISTING BY VALIDATION NUMBER FOR EXPIRED CERTIFICATES

REVALIDATION OF	REV	CERTIFICATE NUMBER	REV	EXPIRY DATE	PACKAGE IDENTIFICATION	PACKAGE SERIAL NUMBERS	MODES R A I L	R A O D	I A	S E R A	SAFETY SERIES NUMBER
B/30/B(U)	11	A/9002/B(U)	2	1995.07.02	TNB 0145 TYPES 2, 2*, 3, 4, 5	ALL	X	X	X		6/85
	11	D/3076/8(U)	0	1995.07.02	TNB 0145						6/85
	11	E/038/B(U)	0	1995.07.02	TNB 0145		X	X	X	X	6/73AA
	11	F/714/B(U)	Aa	1995.07.02	TNB 0145		X	X	X	X	6/73AA
	11	NL/0089/B(U)	0	1995.07.02	TNB 0145		X	X	X	X	6/73AA
	11	PL/56/B(M)	0	1995.07.02	TNB 0145		X	X	X	X	6/73AA
B/30/B(U)F	10	CDN/E105/	3	1995.07.02	TNB-0145	ALL	X	X	X	X	6/73AA
	10	D/5327/B(U)F	2	1995.07.02	TNB-0145						6/73AA
	10	F/512/B(U)F	E00	1995.07.02	TNB 0145		X	X	X	X	6/73AA
B/31/AF	4	NL/0027/AF	1	1994.03.25	RCC TYPE 3		X	X	X	X	6/73AA
B/41/B(U)F	3	CH/5027/B(U)F	0	1995.07.02	TN 6-01		X	X	X	X	6/85AA
	3	D/5331/B(U)F	1	1995.07.02	TN 6-01						6/73AA
CDN/1014/B(U)T	7	USA/0092/B(U)	7	1995.07.31	NORDION GAMMABEAM 100	1, 3 AND 4	X	X	X	X	6/73AA
CDN/2009/B(U)	8	B/R1S/8.3CDN.2009.9	0	1994.11.30	THERATRONICS F-147	ALL	X	X	X	X	6/73AA
	8	D/3074/B(U)	2	1994.11.30	F-147 Transfer Case	1 to 60					6/85
	8	PL/55/B(M)	0	1994.11.30	THERATRONICS F-147	ALL	X	X	X	X	6/73AA
CDN/2010/B(U)	10	USA/6351/B(U)	10	1995.04.30	NORDION GAMMABEAM 150 IRRADIATOR		X	X	X	X	6/73AA
CDN/2011/B(U)	7	USA/6352/B(U)	8	1995.04.30	NORDION GAMMACELL 200 IRRADIATOR		X	X	X	X	6/73AA
CDN/2019/B(U)	6	USA/0099/B(U)	6	1995.04.30	NORDION GAMMACELL 20 IRRADIATOR	ALL	X	X	X	X	6/73AA
CDN/2039/B(U)	11	B/R1S/8.3CDN.2039.9	0	1995.02.28	ELD 76,78; 765,780,780C,780IEC	ALL	X	X	X	X	6/73AA
	11	D/3073/B(U)	1	1995.02.28	see comment1						6/85
CDN/2042/B(U)	13	D/3072/B(U)	1	1995.06.30	F-245 Shipping Container						6/85
CDN/2043/B(U)-85	13	D/3071/B(U)	0	1994.02.28	F-251,F-318 Sh.Cont.,F-327 Overp						RID/ADR
CDN/2044/B(U)	5	D/3065/B(U)	1	1994.02.28	F-127-X J Rod Shipping Container	≥ 49					RID/ADR
CDN/2046/B(U)	6	D/3094/B(U)	0	1994.10.31	Gammacell 1000, Gamacell 3000						6/85
	6	NL/0099/B(U)	1	1994.10.31	NORDION GAMMACELL 1000 & 3000	ALL	X	X	X	X	6/85AA
CDN/2065/B(U)-85	1	D/3095/B(U)-85	0	1995.01.31	Gammacell 1000, Gamacell 3000	42 and up					RID/ADR
CDN/5193/XT	0	USA/0482/XT	0	1994.12.31	20WC WITH BUDD MULTITRON 160 RAD		X	X	X	X	6/73AA
D/2049/B(U)-85	3	NL/0063/B(U)	1	1995.02.28	GAMMAMAT S 301	< 50	X	X	X	X	6/85
D/4046/AF-85	7	NL/0082/AF	1	1994.09.30	BE TRANSPORTBEHÄLTER TYP KKS		X	X	X	X	6/85

TABLE 5 - FOR ALL CERTIFICATES AND VALIDATIONS

1995 08 31 LISTING OF MATERIALS CONTENTS AND DESCRIPTION

CERTIFICATE NUMBER	REV NO	MASS (kg)	CONTENTS	SHAPE	LGTH	WIDTH	DIAM	HGHT	SHIELDING MATERIAL	OUTER CASING	DESCRIPTION LINE 2
A/101/S	1		45TBq Ir 192 (MASS 2.07 g) OR 2TBq Co 60 (MASS 1.94 g)	SP FORM CAPSULE	7		5			ST STEEL	INNER DIM 2.2 mm DIA x 6.5 mm LONG
A/103/S	1		45TBq Ir 192 (MASS 2.32 g) OR 2TBq Co 60 (MASS 2.0 g)	SP FORM CAPSULE	7		5			ST STEEL	INNER DIM 3.2 mm DIA x 6.5 mm LONG
A/104/S	0		45TBq Ir 192 (MASS 1.33 g) OR 2TBq Co 60 (MASS 1.04 g)	SP FORM CAPSULE	7		5			ST STEEL	INNER DIM 3.2 mm DIA x 5.9 mm LONG
A/105/S	0		6 TBq Ir 192 (MASS 1.16 g) OR 2 TBq Co 60 (MASS 1.03g)	SP FORM CAPSULE	7		5			ST STEEL	INNER DIM 2.2 mm DIA x 5.9 mm LONG
A/106/S	0		45TBq IR 192 (MASS 1.54 g) OR 2TBq Co 60 (MASS 1.24g)	SP FORM CAPSULE	7		5			ST STEEL	INNER DIM 3.2 mm DIA x 5.9 mm LONG
A/107/S	0		45TBq IR 192 (MASS 1.37 g) OR 2TBq Co 60 (MASS 1.24 g)	SP FORM CAPSULE	7		2			ST STEEL	INNER DIM 5.1 mm DIA x 6.5 mm LONG
A/108/S	0		127Bq Ir 192 (MASS 3.17 g) OR 5TBq Co 60 (MASS 2.74 g)	SP FORM CAPSULE	11		4			ST STEEL	INNER DIM 4.6 mm DIA x 10.3 mm LONG
A/109/S	0		127Bq Ir 192 (MASS 3.17 g) OR 5TBq Co 60 (MASS 2.74 g)	SP FORM CAPSULE	11		5			ST STEEL	INNER DIM 4.6 mm DIA x 10.3 mm LONG
A/9601/S	1		3 TBAD U OR Pu COMPOUNDS IN METAL FORM	CYL	206		74		STEEL	STEEL	INNER DIMENSIONS 200 mm LONG x 54 mm DIA
A/9001/B(U)	1	340	MAX 14.8 TBq (400Ci) Cs 137 AS CHLORIDE IN SPECIAL FORM	CYL			367	467	Pb/U	STEEL	PLASTER THERMAL SHIELD WITH IMPACT LIMITERS
A/9002/B(U)	2	292	U Pu AND MIXTURES AS OXIDES OR METAL IN FUEL PINS	CYL			615	1806		STEEL	INNER CAVITY DIM MAX 130 MM DIA x 1490 MM LENGTH
A/9003/B(U)F	1	345	MTR FUEL ASSEMBLIES SEE CERT FOR DETAILS	PARAL	2014	517		994		STEEL	
A/9201/AF	0	4003	U DIOXIDE AS ZIRCALLOY OR ST STEEL CLAD UNIRRAAD FUEL ELEMENTS		5632					STEEL	STEEL FUEL ELEMENT CRADLE ASSEMBLY DIM VARY WITH MODEL SEE CERT
A/9301/B(U)	5	12	Pu U AND OTHER ACTINIDES AS SOLID METALS PUNDERS SEE CERT	CYL			245	270		STEEL	DRUM LINED ST STEEL DRUM CARRYING ST STEEL RESEALABLE CAN
A/9302/B(U)F	0	141	UNIRRAD RADIOACTIVE MATERIAL SEE CERTIFICATE FOR DETAILS	CYL				L		STEEL	INSULATED STEEL KEG WITH RESEALABLE CAN WITH ALUMINIUM LINING
A/9303/B(U)	0	14020	6 48 TBq Co 60 IN THE FORM OF ZIRALY RODS IN SP FORM CAPSULES	BOX	1400	1400		1500	LEAD	ST STEEL	TUBULAR STEEL FRAMED & STEEL CLAD U/WATER WITH 10MM INSULATION
A/9304/B(U)	0	2727	MAX 555 TBq Co 60 in special form	CYL			61		LEAD	STEEL	STEEL ENCASED LEAD SHIELDED CASK IN CRT SPE 22KG A AFFORN OVERPAK
A/9305/B(U)F	3	182	Am Pu Th and/or U in an acidic solution SEE CERT FOR DETAILS	KEG			625	700		ST STEEL	FOR TRANSPORT OF RADIOACTIVE ACIDIC SOLUTION
A/9306/B(U)	0	2100	185 TBq (5000 Ci) Co 60 in SPECIAL FORM	CYL	900		830	1395	LEAD	ST STEEL	
A/9307/B(U)	0	45	SAFEGUARDS SAMPLES SEE CERT FOR DETAILS	KEG			430	460		STEEL	INSULATED STEEL KEG CONTAINING SWY ST STEEL RESEALABLE CAN
A/9308/B(U)F	0	66	Am Pu and/or U as metal oxides carbides or powders	KEG			430	540		ST STEEL	INSULATED STEEL KEG CONTAINING RESEALABLE ST STEEL CAN
A/9402/B(U)F-85	0	9580	13 IRRADIATED MTR FUEL ELEMENTS	CYL			1117	1535	LEAD	STEEL	STEEL CASK WITH SHIELD INSIDE WITH CHOKE LIMITER
A/9403/B(U)F	1	19900	IRRADIATED MTR FUEL ELEMENTS SEE CERT FOR DETAILS	CYL			1875	2239	LEAD	STEEL	
A/9404/B(U)	0	1680	370 TBq (10 kCi) CO60 IN SOLID FORM IN WELDED STEEL CAPSULES	PARAL	H26	R13		1136	PB	STEEL	HAS OVERPACK DIMENSIONS INCLUDE SKID
A/9405/B(U)	0	335	Co60 (300 Ci) Ir192 (25000 Ci) Cs137 (25000 Ci) sous forme solide	CYL			474	525	DEPL URANIUM	STEEL	
A/9406/AF	2	375	MTR FUEL ELEMENTS	CYL	2130		660		ST STEEL	ST STEEL	
A/9407/B(U)	0	30	U U oxi PuU mixtures in solid form	RT CYL			381	356		ST STEEL	Plutonium air transportable model 2
A/9501/B(U)F	0	210	Enriched U max 3000 gm U 235 U and Pu oxides	CYL	600			1255	ST STEEL	STEEL	INNER CAVITY 760 mm HIGH x 138 mm DIA
AUS/02/B(M)	3	4611	UP TO 700 TBq Co 60	RECT	1570	1570		1690	LEAD	STEEL	LARGE SOURCE TRANSPORTER IN STEEL FRAMED WOOD CRATE
AUS/03/B(M)	3	3300	UP TO 500 TBq Co 60	RECT	1070	1070		1495	LEAD	STEEL	TELETHERAPY SOURCE CHANGER IN A STEEL FRAMED WOOD CRATE
AUS/04/B(U) 85	3	920	VARIOUS RADIOISOTOPES SPECIAL FORM SOLIDS LIQUIDS IN ZINMARK CNMT	CYL	700	540		736	DEPL U	ST STEEL	FIRE RETARDANT TIMBER OVERKEID ON ALUMINIUM PALLET
AUS/05/S	2		UP TO 75 TBq Co 60	CYL	6		3			TITANIUM	SEALED SOURCE WELDED TITANIUM CAPSULE

TABLE 6 - LISTING BY MEMBER STATE

AUSTRIA Data provided for the period ending 12 April 1996

CERTIFICATE NUMBER	REV	EXPIRY DATE	REVALIDATION OF	REV	PACKAGE IDENTIFICATION	PACKAGE SERIAL NUMBERS	MODES A I A L	R A D	R T E	A R A D	SAFETY SERIES NUMBER
A/101/S	1	1996.12.31			SG2	ALL	X	X	X	X	6/73AA
A/103/S	1	1996.12.31			SG 3	ALL	X	X	X	X	6/85AA
A/104/S	0	1996.12.31			SG6 1	ALL	X	X	X	X	6/85AA
A/105/S	0	1996.12.31			SG6 2	ALL	X	X	X	X	6/85AA
A/9307/B(U)	0	1995.04.30	GB/2781E/B(U)	3	GB/2781E/B(U)	ALL	X	X	X	X	6/85AA
A/9308/B(U)F	0	1996.05.31	GB/2799E/B(U)F	5	GB/2799E/B(U)F	ALL	X	X	X	X	6/85AA
A/9402/B(U)F 85	0	1996.06.30	D/4053/B(U)F 85	8	MODIFIED GOSLAR Bonalter	ALL	X	X	X	X	6/85
A/9403/B(U)F	1	1997.04.09	F/0077/B(U)F	2	IF 04	ALL	X	X	X	X	6/85AA
A/9406/AF	0	1995.04.04	F/0781/AF	1	SF13		X	X	X	X	6/85AA

AUSTRALIA Data provided for the period ending 31 May 1996

CERTIFICATE NUMBER	REV	EXPIRY DATE	REVALIDATION OF	REV	PACKAGE IDENTIFICATION	PACKAGE SERIAL NUMBERS	MODES A I A L	R A D	R T E	A R A D	SAFETY SERIES NUMBER
AUS/02/B(M)	3	1998.01.12			AAEC 200	AAEC/200/1	X	X		X	6/85
AUS/03/B(M)	3	1998.01.12			AAEC 1300	AAEC 1300/1	X	X		X	6/85
AUS/04/B(U) 85	3	1996.01.01			AAEC 2100		X	X	X	X	6/85
AUS/05/S	2	1998.06.30			AAEC TYPE 05	ALL	X	X	X	X	6/85
AUS/12/S	2	1997.05.21			AAEC TYPE 02	ALL	X	X	X	X	6/85
AUS/17/B(M)	1	1998.01.12			AAEC 2400	AAEC/2400/1	X	X		X	6/85

BELGIUM Data provided for the period ending 15 May 1996

CERTIFICATE NUMBER	REV	EXPIRY DATE	REVALIDATION OF	REV	PACKAGE IDENTIFICATION	PACKAGE SERIAL NUMBERS	MODES A I A L	R A D	R T E	A R A D	SAFETY SERIES NUMBER
B/009/S	4	1996.12.20			G 7	-	X	X	X	X	6/73AA
B/010/S	4	1996.12.20			G 8		X	X	X	X	6/73AA
B/012/S	3	1998.03.05			G 6	ALL	X	X	X	X	6/73AA
B/013/S	2	1995.08.13			G 4	ALL	X	X	X	X	6/73AA
B/014/S	2	1995.08.14			G 1	ALL	X	X	X	X	6/73AA
B/14/B(U)	4	1997.01.31			TNB 0144	ALL	X	X	X	X	6/73AA
B/18/B(U)	7	1996.04.19			AGNES P	ALL	X	X	X	X	6/73AA
B/19/F	6	1995.04.04			FS 13	ALL	X	X	X	X	6/73AA

APPENDIX I
LIST OF MEMBER STATES AND CODES

MEMBER STATE	VRI CODE	ISO CODE	MEMBER STATE	VRI CODE	ISO CODE	MEMBER STATE	VRI CODE	ISO CODE
AFGHANISTAN	AFG	AF	ICELAND	IS	IS	PERU	PE	PE
ALBANIA	AL	AL	INDIA	IND	IN	PHILIPPINES	RP	PH
ALGERIA	DZ	DZ	INDONESIA	RI	ID	POLAND	PL	PL
ARGENTINA	RA	AR	IRAN, ISLAMIC REPUBLIC OF	IR	IR	PORTUGAL	P	PT
AUSTRALIA	AUS	AU	IRAQ	IRQ	IQ	QATAR	*QA*	QA
AUSTRIA	A	AT	IRELAND	IRL	IE	ROMANIA	R	RO
BANGLADESH	BD	BD	ISRAEL	IL	IL	RUSSIAN FEDERATION	RU	
BELGIUM	B	BE	ITALY	I	IT	SAUDI ARABIA	SA	SA
BOLIVIA	*BO*	BO	JAMAICA	JA	JM	SENEGAL	*SN*	SN
BRAZIL	BR	BR	JAPAN	J	JP	SIERRA LEONE	WAL	SL
BULGARIA	BG	BG	JORDAN	HKJ	JO	SINGAPORE	SGP	SG
CAMEROON	*CM*	CM	KENYA	EAK	KE	SLOVAK REPUBLIC	SK	
CANADA	CDN	CA	KOREA, DEM.P.R.	KP	KP	SLOVENIA	SLO	
CHILE	RCH	CL	KOREA, REPUBLIC OF	ROK	KR	SOUTH AFRICA	ZA	ZA
CHINA, PEOPLE'S REP. OF	*CN*	CN	KUWAIT	*KW*	KW	SPAIN	E	ES
COLOMBIA	CO	CO	LEBANON	RL	LB	SRI LANKA	CL	LK
COSTA RICA	CR	CR	LIBERIA	*LR*	LR	SUDAN	SUD	SD
COTE d'IVOIRE	*CI*	CI	LIBYAN ARAB JAMAHIRIYA	*LY*	LY	SWEDEN	S	SE
CUBA	C	CU	LIECHTENSTEIN	*LI*	LI	SWITZERLAND	CH	CH
CYPRUS	CY	CY	LUXEMBOURG	L	LU	SYRIAN ARAB REPUBLIC	SYR	SY
CZECH REPUBLIC	CZ	CZ	MADAGASCAR	RM	MG	THAILAND	T	TH
DEMOCRATIC KAMPUCHEA	*KH*	KH	MALAYSIA	MAL	MY	TUNISIA	TN	TN
DENMARK	DK	DK	MALI	RMM	ML	TURKEY	TR	TR
DOMINICAN REPUBLIC	*DO*	DO	MAURITIUS	*MU*	MU	UGANDA	*UG*	UG
ECUADOR	EC	EC	MEXICO	MEX	MX	UKRAINE	UA	
EGYPT	ET	EG	MONACO	MC	MC	UNITED ARAB EMIRATES	*AE*	AE
EL SALVADOR	ES	SV	MONGOLIA	*MN*	MN	UNITED KINGDOM	GB	GB
ETHIOPIA	ETH	ET	MOROCCO	*MA*	MA	UNITED REPUBLIC OF TANZANIA	*TZ*	TZ
FINLAND	FIN	FI	MYANMAR	BUR	BU	UNITED STATES OF AMERICA	USA	US
FRANCE	F	FR	NAMIBIA	*NA*	NA	URUGUAY	U	UY
GABON	*GA*	GA	NETHERLANDS	NL	NL	USSR (former Soviet Union)	SU	SU
GERMAN DEM.REP. (former)	DDR	DD	NEW ZEALAND	NZ	NZ	VENEZUELA	YV	VE
GERMANY	D	DE	NICARAGUA	*NI*	NI	VIET NAM	VN	VN
GHANA	GH	GH	NIGER	RN	NE	YUGOSLAVIA	YU	YU
GREECE	GR	GR	NIGERIA	WAN	NG	ZAIRE	ZRE	ZR
GUATEMALA	GCA	GT	NORWAY	N	NO	ZAMBIA	Z	ZM
HAITI	*HI*	HI	PAKISTAN	PAK	PK	ZIMBABWE	*ZB*	ZB
HOLY SEE	*VA*	VA	PANAMA	*PA*	PA			
HUNGARY	H	HU	PARAGUAY	PY	PY			

APPENDIX II
COMPETENT AUTHORITY ADDRESSES

A Bundesmin. f. öffentl. Wirtschaft und Verkehr
Abteilung I/5
Radetzkystraße 2
A-1031 Vienna
Austria

AUS Nuclear Safety Bureau
P.O. Box 655
Miranda, NSW 2228
Australia

B Ministère de la Santé Publique et de l'Environnement
Service de Protection contre les Radiations Ionisantes
Cité Administrative de l'Etat, Quartier Vésale
B-1010 Bruxelles
Belgium

CDN Atomic Energy Control Board
P.O. Box 1046, Stn B
Ottawa, Ontario, K1P 5S9
Canada

CH Federal Office of Energy
Nuclear Safety Inspectorate
Division of Radiation Protection
CH-5232 Villigen/HSK
Switzerland

CN China National Nuclear Corporation
P.O. Box 2102
Beijing 100822
China

CZ State Office for Nuclear Safety
Sleszká 9
12029 Prague 2
Czech Republic

D Bundesamt für Strahlenschutz
Postfach 100149
Albert-Schweitzerstr. 18
D-38201 Salzgitter
Germany

DDR formerly
Staatliches Amt f. Atomsicherheit und Strahlenschutz
German Democratic Republic
see entry for "GERMANY"

DK National Board of Health
National Institute of Radiation Hygiene
Frederikssundsvej 378
DK-2700 Brønshøj
Denmark

E Consejo de Seguridad Nuclear
Instalaciones radiactivas y ciclo combustible
c/Justo Dorado 11
E-28040 Madrid
Spain

ET Atomic Energy Authority
101, Kasr El-Eini Street
Cairo, Egypt

F Commissariat à l'énergie atomique
IPSN DSMR/SSTR
B.P. No. 6
F-92265 Fontenay-aux-Roses CEDEX
France

FIN Finnish Centre for Radiation and Nuclear Safety
P.O. Box 14
FIN-00881 Helsinki
Finland

GB Department of Transport
Radioactive Materials Transport Division
2 Marsham Street
London SW1P 3EB
United Kingdom

H MTA Izotópkutató Intézet
(Inst. of Isotopes of the Hungarian Academy of Sciences)
P.O. Box 77
H-1525 Budapest
Hungary

APPENDIX III
NUMBERS OF CURRENT AND EXPIRED CERTIFICATES

MEMBER STATE	EXPIRED	CURRENT	TOTALS
ARGENTINA	1	10	11
AUSTRALIA	0	25	25
AUSTRIA	7	21	28
BELGIUM	38	51	89
CANADA	30	91	121
CZECH REPUBLIC	0	2	2
DENMARK	10	10	20
FINLAND	9	8	17
FRANCE	84	159	243
GERMAN DEM.REP. (former)	2	0	2
GERMANY	41	136	177
HUNGARY	0	9	9
INDIA	3	4	7
ITALY	0	6	6
JAPAN	39	83	122
NETHERLANDS	19	33	52
POLAND	2	4	6
RUSSIAN FEDERATION	5	47	52
SOUTH AFRICA	0	1	1
SPAIN	3	21	24
SWEDEN	6	30	36
SWITZERLAND	27	40	67
UNITED KINGDOM	64	64	128
UNITED STATES OF AMERICA	65	233	298
USSR (former Soviet Union)	6	4	10
GRAND TOTALS	461	1092	1553

Notes: 1) "EXPIRED" means certificates expired since last complete calendar year.
2) "CURRENT" means those certificates valid on the date stated above
3) Data from the IAEA PACKTRAM database as of 1995.08.31

APPENDIX IV
DATA INPUT FORM

CERTIFICATE NUMBER: _____ REVISION: _____ COUNTRY: _____

VALIDATION OF: _____ REVISION: _____ COUNTRY: _____

ISSUE DATE: _____ EXPIRY DATE: _____ SAFETY SERIES: 6/_____

IDENTIFICATION: _____ TI FOR CRITICALITY: _____

SERIAL NUMBERS: _____ APPROXIMATE PACKAGE MASS: _____ kg

APPROVED MODES OF TRANSPORT: ALLMODES. _____ SEA: _____ AIR: _____ ROAD: _____ RAIL: _____

DESCRIPTION:

SHAPE: _____

DIMENSIONS (mm): LENGTH _____ WIDTH: _____ DIAMETER: _____ HEIGHT: _____

SHIELDING MATERIAL: _____ CASING: _____

GENERAL: _____

CONTENTS: _____

REVISION REASON: _____

COMMENT1: _____

COMMENT2: _____

COMMENT3: _____

ORGANIZATION: _____

_____

_____

_____

_____

DATE SUBMITTED: _____ SUBMITTED BY: _____

DISCLAIMER: The information in this form is not complete nor guaranteed to be accurate. If detailed information is required the original certificate must be consulted.

ANNEX V
SAMPLE PRINTOUT OF DATA DUMP FROM 6.3
1st Third

CERTIFICATE	REV	COUNTRY	ISSUED	EXPIRY	DTOIAEA	PACKAGE IDENTIFICATION	PACKAGE NUMBER	F	MASS	FOREIGN CERTIFICATE	FRV	FOREIGN COUNTRY	CONTENTS	
A/101/S	1	AUSTRIA	93.12.23	96.12.31	94.01.05	SG2	ALL		0				6TBq Ir-192 (MASS 2.07 g) OR 2TBq Co-60 (MASS 1.94 g)	SP.FORM
A/103/S	1	AUSTRIA	93.12.23	96.12.31	94.01.05	SG-3	ALL		0				6TBq Ir-192 (MASS 2.32 g) OR 2TBq Co-60 (MASS 2.0 g)	SP.FORM
A/104/S	0	AUSTRIA	93.12.23	96.12.31	94.01.05	SG6-1	ALL		0				6TBq Ir-192 (MASS 1.33 g) OR 2TBq Co-60 (MASS 1.04 g)	SP.FORM
A/105/S	0	AUSTRIA	93.12.23	96.12.31	93.12.23	SG6-2	ALL		0				6 TBq Ir-192 (MASS 1.16 g) OR 2 TBq Co-60 (MASS 1.03g)	SP.FORM
A/106/S	0	AUSTRIA	93.12.23	96.12.31	94.01.05	SG6-3	ALL		0				6TBq iR-192 (MASS 1.54 g) OR 2TBq Co-60 (MASS 1.24g)	SP.FORM
A/107/S	0	AUSTRIA	93.12.23	96.12.31	93.12.23	SG6-4	ALL		0				6TBq iR-192 (MASS 1.37 g) OR 2TBq Co-60 (MASS 1.24 g)	SP.FORM
A/108/S	0	AUSTRIA	93.12.23	96.12.31	93.12.23	SG10-1	ALL		0				12TBq Ir-192 (MASS 3.17 g) OR 5TBq Co-60 (MASS 2.74 g)	SP.FORM
A/109/S	0	AUSTRIA	93.12.23	96.12.31	93.12.23	SG10-2	ALL		0				12TBq Ir-192 (MASS 3.17 g) OR 5TBq Co-60 (MASS 2.74 g)	SP.FORM
A/8801/S	1	AUSTRIA	92.10.09	95.10.15	92.10.09	CUP	ALL		3				IRRAD. U OR Pu. COMPOUNDS. IN METAL FORM	
A/9001/B(U)	1	AUSTRIA	94.02.04	95.08.07	94.02.16	SV 17. modified	ALL		340	F/084/B(U)		COD FRANCE	MAX. 14.8 TBq (400Ci) Cs-137. AS CHLORIDE IN SPECIAL FORM	
A/9002/B(U)	2	AUSTRIA	93.02.01	95.07.02	93.02.01	TNB 0145 TYPES 2. 2*. 3. 4. 5	ALL		292	B/30/B(U)		11 BELGIUM	U. Pu AND MIXTURES AS OXIDES OR METAL IN FUEL PINS	
A/9003/B(U)F	1	AUSTRIA	93.07.01	96.05.31	93.07.16	MTR-D	ALL		345	D/4293/B(U)F-85		2 GERMANY	MTR FUEL ASSEMBLIES. SEE CERT. FOR DETAILS	
A/9201/AF	0	AUSTRIA	92.02.17	96.09.30	92.02.17	RCC. RCC-1. RCC-3. RCC-4	ALL		4003	USA/5450/AF		9 UNITED STATES O	U-DIOXIDE AS ZIRCALLOY OR ST.STEEL CLAD UNIRRAAD. FUEL ELEMENTS	
A/9301/B(U)	5	AUSTRIA	93.01.22	95.07.31	93.01.22	GB/27678/B(U)	ALL		12	GB/2767B/B(U)		4 UNITED KINGDOM	Pu. U AND OTHER ACTINIDES AS SOLID. METALS. POWDERS. SEE CERT.	
A/9302/B(U)F	0	AUSTRIA	93.01.22	95.07.31	93.01.22	GB/2B16E/B(U)F	ALL		141	GB/2B16E/B(U)F		2 UNITED KINGDOM	UNIRRAD. RADIOACTIVE MATERIAL. SEE CERTIFICATE FOR DETAILS	
A/9303/B(U)	0	AUSTRIA	93.02.17	95.10.31	93.02.17	GB/3231B/B(U)	ALL		14020	GB/3231B/B(U)		3 UNITED KINGDOM	6.4B PBq Co-60 IN THE FORM OF COBALT RODS IN SP: FORM CAPSULES	
A/9304/B(U)	0	AUSTRIA	93.04.30	97.10.31	93.04.30	NPI-20WC-6 MkII	ALL		2727	USA/9215/B(U)		2 UNITED STATES O	MAX. 555 TBq Co-60 in special form.	
A/9305/B(U)F	3	AUSTRIA	93.11.11	96.10.31	93.11.11	GB/2B02B(B(U)F	ALL		182	GB/2802B/B(U)F		3 UNITED KINGDOM	Am. Pu. Th and/or U in an acidic solution. SEE CERT FOR DETAILS	
A/9306/B(U)	0	AUSTRIA	93.06.30	94.08.13	93.06.30	D9056	ALL		2100	F/087/B(U)		EOD FRANCE	185 TBq (5000 Ci) Co-60 in SPECIAL FORM	
A/9307/B(U)	0	AUSTRIA	93.05.13	95.04.30	93.05.13	GB/2781E/B(U)	ALL		45	GB/2781E/B(U)		3 UNITED KINGDOM	SAFEGUARDS SAMPLES. SEE CERT. FOR DETAILS	
A/9308/B(U)F	0	AUSTRIA	93.07.30	96.05.31	93.07.30	GB/2799E/B(U)F	ALL		66	GB/2799E/B(U)F		5 UNITED KINGDOM	Am. Pu and/or U as metal. oxides. carbides. or powders	
A/9402/B(U)F-85	0	AUSTRIA	94.06.01	96.06.30	94.06.01	MODIFIED GOSLAR Behalter	ALL	F	9580	D/4053/B(U)F-85		8 GERMANY	13 IRRADIATED MTR FUEL ELEMENTS	
A/9403/B(U)F	1	AUSTRIA	94.09.09	97.04.09	94.09.09	IU 04	ALL		18900	F/007/B(U)F		Fa FRANCE	IRRADIATED MTR FUEL ELEMENTS. SEE CERT. FOR DETAILS	
A/9404/B(U)	0	AUSTRIA	94.09.19	96.05.31	94.09.19	NORDION F-144 AND F-144-AC	1.3.5.9		1680	CDN/2005/B(U)		10 CANADA	370 TBq (10 kCi) Co60 IN SOLID FORM IN WELDED STEEL CAPSULES.	
A/9405/B(U)	0	AUSTRIA	94.09.19	96.06.28	94.09.19	D 80433	ALL		335	F/286/B(U)		DOD FRANCE	Co60 (300 Ci).Ir192 (25000 Ci).Cs137 (25000 Ci) sous forme solide	
A/9406/AF	0	AUSTRIA	94.12.28	95.04.04	95.02.24	SF13]			375	F/081/AF		Ea FRANCE	MTR FUEL ELEMENTS	
A/9407/B(U)	0	AUSTRIA	94.12.09	96.07.31	94.12.09	Model PAT-2	ALL		33	USA/9150/B(U)		3 UNITED STATES O	]u.U or Pu/U mixtures in solid form	
A/9501/B(U)F	0	AUSTRIA	95.04.12	98.01.31	95.04.12	FS 51	ALL		210	F/202/B(U)F		Gb FRANCE	Enriched U. max. 3000 gm U-235: U and Pu oxides	
AUS/02/B(M)	3	AUSTRALIA	93.01.13	98.01.12	. .	AAEC 200	AAEC/200/1		4611				UP TO 700 TBq Co-60	
AUS/03/B(M)	3	AUSTRALIA	93.01.13	98.01.12	. .	AAEC 1300	AAEC 1300/1		3300				UP TO 500 TBq Co-60	
AUS/04/B(U)-85	3	AUSTRALIA	91.01.01	96.01.01	. .	AAEC 2100			320				VARIOUS RADIOISOTOPES. SPECIAL FORM SOLIDS,LIQUIDS IN 2NDARY CONT.	
AUS/05/S	2	AUSTRALIA	93.06.30	98.06.30	. .	AAEC TYPE 05	ALL		0				UP TO 75 GBq Co-60	

CERTIFICATE	R	R	A	S	SHAPE	LGTH	WIDTH	DIA	HT	SHIELDING MATERIAL	PACKAGE CASING	DESCRIPTION	REVISION REASON
A/101/S	X	X	X	X	CAPSULE	7	0	5	0		ST STEEL	INNER DIM : 2.2 mm DIA. x 6.5 mm LONG	EXTENSION
A/103/S	X	X	X	X	CAPSULE	7	0	5	0		ST STEEL	INNER DIM : 3.2 mm DIA. x 6.5 mm LONG	EXTENSION
A/104/S	X	X	X	X	CAPSULE	7	0	5	0		ST STEEL	INNER DIM : 3.2 MM DIA x 5.8 MM LONG	FIRST ISSUE
A/105/S	X	X	X	X	CAPSULE	7	0	5	0		St STEEL	INNER DIM : 2.2 mm DIA. x 5.8 mm LONG	FIRST ISSUE
A/106/S	X	X	X	X	CAPSULE	7	0	5	0		ST STEEL	INNER DIM : 3.2 mm DIA x 5.8 mm LONG	FIRST ISSUE
A/107/S	X	X	X	X	CAPSULE	7	0	2	0		ST.STEEL	INNER DIM : 5.1 mm DIA. x 6.5 mm LONG	FIRST ISSUE
A/108/S	X	X	X	X	CAPSULE	11	0	6	0		ST STEEL	INNER DIM : 4.6 mm DIA x 10.3 mm LONG	FIRST ISSUE
A/109/S	X	X	X	X	CAPSULE	11	0	6	0		ST STEEL	INNER DIM : 4.6 mm DIA x 10.3 mm LONG	FIRST ISSUE
A/8801/S	X	X	X	X	CYL	206	0	74	0	STEEL	STEEL	INNER DIMENSIONS 200 mm LONG x 64 mm DIA	
A/9001/B(U)	X	X	X	X	CYL.	0	0	387	497	Pb/U	STEEL	PLASTER THERMAL SHIELD, WITH IMPACT LIMITERS	EXTENSION
A/9002/B(U)	X	X	X		CYL	0	0	615	1800		STEEL	INNER CAVITY DIM : MAX 330 MM DIA. x 1490 MM LENGTH	
A/9003.B(U)F	X	X	X	X	PARAL	2014	517	0	684		STEEL		EXTENSION
A/9201/AF	X	X	X	X		5612	0	0	0		STEEL	STEEL FUEL ELEMENT CRADLE ASSEMBLY, DIM VARY WITH MODEL, SEE CERT	
A/9301/B(U)	X	X			CYL.	0	0	245	270		STEEL	CORK-LINED ST STEEL DRUM CARRYING ST.STEEL RESEALABLE CAN	
A/9302/B(U)F	X	X			CYL.	0	0	0	1		STEEL	INSULATED STEEL KEG WITH RESEALABLE CAN WITH ALUMINIUM LINING	
A/9303/B(U)	X	X	X		BOX	3400	1900	0	1500	LEAD	ST STEEL	TUBULAR STEEL FRAMED & STEEL CLAD CONTAINER, WITH CORK INSULATION	FIRST ISSUE
A/9304/B(U)	X	X	X		CYL	0	0	61	0	LEAD	STEEL	STEEL ENCASED LEAD-SHIELDED CASK IN DOT SPEC 20WC-6 WOODEN OVERPAC	FIRST ISSUE
A/9305/B(U)F	X	X	X	X	KEG	0	0	625	700		ST.STEEL	FOR TRANSPORT OF RADIOACTIVE ACIDIC SOLUTION	
A/9306/B(U)	X	X	X	X	cyl	900	0	830	1335	LEAD	ST STEEL		FIRST ISSUE
A/9307/B(U)	X	X	X	X	KEG	0	0	430	460		STEEL	INSULATED STEEL KEG CONTAINING TWO ST.STEEL RESEALABLE CANS	FIRST ISSUE
A/9308/B(U)F	X	X	X	X	KEG	0	0	430	540		ST STEEL	INSULATED STEEL KEG CONTAINING RESEALABLE ST STEEL CAN	FIRST ISSUE
A/9402/B(U)F-85	X	X	X	X	CYL.	0	0	1117	1515	LEAD	STEEL	STEEL CASK WITH SHIELD INSIDE, WITH SHOCK LIMITERS	FIRST ISSUE
A/9403/B(U)F	X	X	X	X	CYL.	0	0	1875	2239	LEAD	STEEL		
A/9404/B(U)	X	X	X	X	PARAL	826	813	0	1136	PB	STEEL	HAS OVERPACK - DIMENSIONS INCLUDE SKID	FIRST ISSUE
A/9405/B(U)	X	X	X	X	CYL.	0	0	474	625	DEPL URANIUM	STEEL		
A/9406/AF	X	X	X	X	CYL.	2110	0	660	0	ST STEEL	ST STEEL		FIRST ISSUE
A/9407/B(U)	X	X	X	X	RT CYL	0	0	381	356		ST STEEL	Plutonium air transportable model 2	First issue
A/9501 B(U)F	X	X	X	X	CYL	600	0	0	1255	ST STEEL	STEEL	INNDER CAVITY: 760 mm HIGH x 138 mm DIA	FIRST ISSUE
AUS/02/B(M)	X	X		X	RECT	1070	1070	0	1690	LEAD	STEEL	LARGE SOURCE TRANSPORTER IN STEEL FRAMED WOOD CRATE	CHANGE FROM B(U) TO B(M) TO MEET 1985 REGULATIONS
AUS/03/B(M)	X	X		X	RECT.	1070	1070	0	1690	LEAD	STEEL	TELETHERAPY SOURCE CHANGER IN A STEEL FRAMED WOOD CRATE	CHANGE FROM B(U) TO B(M) TO SUIT 1985 REGULATIONS
AUS/04.B(U)-85	X	X	X	X	CYL	700	640	0	716	DEPL U	ST STEEL	FIRE RETARDANT TIMBER COVERED ON ALUMINIUM PALLET	ADDITION OF LIQUID CONTENTS
AUS/05/S	X	X	X	X	CYL	6	0	3	0		TITANIUM	SEALED SOURCE - WELDED TITANIUM CAPSULE	REVISION 2 CHANGE OF REVISION AND EXPIRY DATE

CERTIFICATE	SSERIES	ALNO	COMMENT 1	COMMENT 2	COMMENT 3
A/101/S	6/73AA				
A/103/S	6/85AA				
A/104/S	6/85AA				
A/105/S	6/85AA				
A/106/S	6/85AA				
A/107/S	6/85AA				
A/108/S	6/85AA				
A/109/S	6/85AA				
A/8801/S	6/85		MAX. HEAT OUTPUT 0.05 W		
A/9001/B(U)	6/85AA				
A/9002/B(U)	6/85		DIA. FOR TYPES 2.2*.3.4.5: 130. 138. 130. 130. 130	HEIGHT FOR TYPES 2.2*.3.4.5: 320. 202. 440. 590. 1490	MASS FOR TYPES 2.2*.3.4.5: 73. 73. 219. 292. 292
A/9003/B(U)F	6/85AA				
A/9201/AF	6/73AA				
A/9301/B(U)	6/85		MAXIMUM HEAT LOAD 10 WATTS		
A/9302/B(U)F	6/85				
A/9303/B(U)	6/85AA		TOTAL RATE OF HEAT GENERATION: 2.70 KILOWATTS PER PACKAGE		
A/9304/B(U)	6/85AA		MAX. INTERNAL DECAY HEAT 240 THERMAL WATTS		
A/9305/B(U)F	6/85AA				
A/9306/B(U)	6/85AA				
A/9307/B(U)	6/85AA				
A/9308/B(U)F	6/85AA		FISSILE CLASS II	SEE CERT. FOR DETAILS ON PERMITTED CONTENTS	
A/9402/B(U)F-85	6/85	25		Dim. with shock limiters: H.: 1772 mm, D.: 1269 mm, m: 10000 kg	allowable no.: 2
A/9403/B(U)F	6/85AA				
A/9404/B(U)	6/85AA		CAPSULES:C132.C133.C140.C146.C151.C164.C170.C174A.C174B.C196.C199.	C200. C205. C215. XC233. XC325. TC239. HCD69893/8. HCD69903/8	F-166 INSERT USED FOR LOADINGS > 148 TBq
A/9405/B(U)	6/85AA				
A/9406/AF	6/85AA				
A/9407/B(U)	6/85AA				
A/9501/B(U)F	6/85AA				
AUS/02/B(M)	6/85				
AUS/03/B(M)	6/85				
AUS/04/B(U)-85	6/85				
AUS/05/S	6/85				

ANNEX VI
SAMPLE PRINTOUT OF RECORDS IN ARCHIVE FILE

PAGE 1 TABLE OF ALL ARCHIVAL CERTIFICATES
1995.11.03

CERTIFICATE NUMBER	REV	EXPIRY DATE	REVALIDATION OF	REV	PACKAGE IDENTIFICATION	PACKAGE SERIAL NUMBERS	MODES R A I L R A D O I E	SAFETY SERIES NUMBER
430199004300RNL TRU	Ca	. .	6/67					
A/102/S	1	1993.12.31			SG	ALL	X X X X	6/73AA
A/8703/B(U)F	0	1993.04.15	SU/028-1/B(U)F				X X X X	
A/8801/S	0	1990.12.31			CUP		X X X	6/85
A/9002/B(U)F	1	1995.07.02	B/30/B(U)F		TNB 0145 TYPES 2,3,4,5		X X	6/85
A/9004/AF	0	1992.09.30	GB/1660A/AF				X X	6/85
A/9301/B(U)F	3	1995.07.31	GB/2767B/B(U)F		SAFPAK ASSEMBLY		X X	6/85
A/9401/B(U)	0	1995.08.07	F/084/B(U)	EA	SV-17	ALL	X X X X	6/85AA
AUS/14/B(U)	1	1993.10.17			AAEC/1500	1501 TO 1506	X X X X	6/85
B/010/S	2	1990.12.20			G 8		X X X X	6/73AA
B/016/S	1	1993.07.16			G 2	--	X X X X	6/73AA
B/017/S	1	1993.07.17			G 5	--	X X X X	6/73AA
B/13/B(U)F	5	1992.01.31			FS 51	ALL	X X X X	6/73AA
B/15/B(U)F	5	1991.05.06			IU 04 PEGASE	ALL	X X X X	6/73AA
B/24/B(U)F	7.1	1993.07.15			NTL 8/3	ALL	X X X X	6/73AA
B/26/B(U)F	4	1993.03.31			IL 44	001, 002	X X X X	6/73AA
B/27/B(U)F	101	1994.10.07			NTL 8/1		X X X X	6/73AA
B/30/B(U)F	10	1995.07.02			TNB 0145		X X X X	6/73AA
B/32/B(U)F	3	1991.11.22			FS 10	ALL	X X X X	6/73AA
B/43/B(U)F	2	1991.07.29			R 48	ALL	X X X X	6/73AA
B/45/B(U)F	1	1990.01.31			R 52	ALL	X X X X	6/73AA
B/53/B(U)F	1	1993.05.31			SAFKEG 2799E	ALL	X X X X	6/73AA
B/55/B(U)F	0	1990.09.30			KEG 2816C	ALL	X X X X	6/73AA
B/56/B(U)F	0	1990.08.01			IL 20	ALL	X X X X	6/73AA
B/RIS/8.3F.242.93.1	0	1993.12.14	F/242/B(U)		R 61		X X X X	6/73AA
B/RIS/8.3FF.242.93.	0	1993.12.14	F/242/B(U)		R 61		X X X X	6/73AA
B/RIS/8.3GB.2799E.9	0	1993.12.31	GB/2799E/B(U)F		INSULATED STEEL KEG		X X X X	6/73AA
CDN/0001/S	10	1992.05.31			NORDION SPECIAL FORM CAPSULES	ALL	X X X X	6/73AA
	11	1996.05.31			NORDION SPECIAL FORM CAPSULES	ALL	X X X X	6/73AA
	12	1996.05.31			NORDION SPECIAL FORM CAPSULES	ALL	X X X X	6/73AA
CDN/0002/S	3	1990.04.30			THERATRONICS C220,C250,C303,C304	ALL	X X X X	6/73AA
CDN/0003/S	3	1992.09.30			NORDION XC249	ALL	X X X X	6/73AA
	4	1992.09.30			NORDION XC249	ALL	X X X X	6/73AA
CDN/0004/S	4	1994.09.30			THERATRONICS C146, C151, XC325	ALL	X X X X	6/73AA
	4	1994.09.30			THERATRONICS C146, C151, XC325	ALL	X X X X	6/73AA
CDN/0004/S-85	5	1998.09.30			THERATRONICS C146, C151, XC325	ALL	X X X X	6/85AA
CDN/0006/S	3	1992.09.30			NORDION C184, C230, C252	ALL	X X X X	6/73AA
	4	1996.09.30			NORDION C184, C230, C252	ALL	X X X X	6/73AA
CDN/0007/S	3	1992.09.30			NORDION XC299	ALL	X X X X	6/73AA
	4	1992.09.30			NORDION XC299	ALL	X X X X	6/73AA
CDN/0008/S	3	1994.09.30			NORDION XC219	ALL	X X X X	6/73AA
CDN/0008/S-85	4	1998.09.30			NORDION XC219	ALL	X X X X	6/85AA
CDN/0009/S	1	1992.09.30			NORDION TC-346	ALL	X X X X	6/73AA
	2	1996.09.30			NORDION TC-346	ALL	X X X X	6/73AA
CDN/0010/S	1	1998.10.31			NORDION C-188 CAPSULE	ALL	X X X X	6/85AA
CDN/0010/S-85	2	1998.10.31			NORDION C-188 CAPSULE	ALL	X X X X	6/85AA
CDN/0011/S	1	1995.06.30			C-161 TYPE 8, C-1000 CAPSULES	ALL	X X X X	6/73AA
CDN/0014/S-85	0	1996.10.30			NORDION C-198 CAPSULE	ALL	X X X X	6/85AA
CDN/1002/B(U)	12	1995.02.28			NORDION F112, F113	ALL	X X X X	6/73AA
	13	1997.02.28			NORDION F112, F113	ALL	X X X X	6/73AA
CDN/1013/B(U)	12	1991.03.31			NORDION F156	ALL	X X X X	6/73AA
CDN/1014/B(U)	6	1992.07.31			NORDION GAMMABEAM 100	1,3,4	X X X X	6/73AA
CDN/1016/B(U)	8	1992.09.30			GAMMAMAT T-120, T-I, T-50	ALL	X X X X	6/73AA

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