REVISION OF
DETAILED DEFINITION OF REQUIREMENTS (DDR)

VOLUME 1

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PART I

INTRODUCTION

1.0 GENERAL DISCUSSION

The Detailed Definition of Requirements (DDR) is the statement of "what" the Integrated Safeguards Information System (ISIS) must accomplish. This document is an evolving document to be amended and added to as the requirements of the U.S. Nuclear Regulatory Commission change. The Detailed Definition of Requirements should be maintained in a current and up-to-date form throughout the development and operational life of ISIS.

The DDR is concerned with the documentation of the safeguards information requirements. It is not concerned with "how" these requirements are satisfied. The technical considerations of system design and implementations can therefore be left to the "analyst." The DDR, in its concise, rigorous format, is the vehicle of communications between the users, who must validate the requirements, and analyst, who must determine how to fulfill those requirements.

It should be noted that the level of detail currently contained in the DDR is sufficient to bring ISIS to the general system design stage. Each additional phase of ISIS development should be accompanied by a corresponding analysis and further details should be supplied in order that the DDR can retain its communications vehicle posture.

Since the DDR is the statement of ISIS capabilities, periodic reviews of this document, performed by NRC personnel, will assure that ISIS will meet individual, as well as the collective requirements of NRC for safeguards information.

1.1 SAFEGUARDS INFORMATION REQUIREMENTS

NRC's safeguards information requirements are expressed in the DDR in terms of:

- What is the totality of S/G information currently needed by NRC?
- How are these data related to each other?
- How is the information to be reported?
- How are these data supplied?

Within the DDR, NRC's safeguards information requirements are expressed in the form of functional Service Modules (see Part II of DDR). Each of the Service Modules defines a set of Output Reports and Input Forms. The Data Base Composition documents the logical structure of the data to

be maintained within ISIS. Before the content of the Service Module Reports and Forms can be discussed in detail, it is necessary to introduce the major concepts employed to define the Data Base Composition.

1.2 DATA BASE COMPOSITION CONCEPTS

The ISIS DDR Data Base Composition represents the safeguards information requirements of NRC. These information requirements are expressed in terms of a "conceptual" data base. It consists of three basic components. The first component is called a "construct." A construct is defined to be an object, event, or other entity about which information is required. Safeguards-related examples of constructs are: REGION, SITE, and so on.

The exact information which is required to describe, define, or provide attributes of a construct is expressed in data elements, the second component of the conceptual data base. Data elements concerning the construct SITE, for example, are Site Name, Site ID, Address, Phone Number, etc. The technical definition of a "data element" as used in DDR methodology is: The smallest unit of information or data which is to be maintained, such that any update to this information is done by total replacement of the unit. For example, the data element "address" is required information about a SITE. Any address might consist of a number, street, city, state, and ZIP code. In order to modify the "city" portion of an address of a SITE, the entire new data element, consisting of the old number, old street, new city, old state, and old ZIP code would be entered.

The third component of the ISIS "conceptual" data base is called a "relationship." For example, a SITE is geographically located within a REGION. Expressed another way, a REGION has SITES located within it. This fact is expressed in the DDR Data Base Composition as a "relationship" between SITE and REGION. In this example, REGION is the "superior" construct and SITE is the "subordinate." That is, there may be many SITES within a given REGION. At the same time, a SITE can only exist geographically in one REGION. Thus, as used in the requirements definition, a "relationship" represents the fact that there is a physical, logical, or safeguards connection between two constructs. Each relationship is expressed twice: once from the viewpoint of the superior construct (REGION has SITES located within it), and once from the viewpoint of the subordinate construct (SITES are geographically located within a REGION).

The major advantage of using DDR methodology is that it provides a vehicle for expressing the safeguards information requirements of NRC in a rigorous and detailed manner. The DDR can be read and understood by both NRC personnel and ISIS system developers and remove the ambiguities which arise in a prose description of requirements.

For benefit of those readers who are familiar with data processing at the implementation level, it is important to note the following: although a construct might, in fact, be an ISIS record and a data element might be a field on this record, there is no requirement that this be so. The DDR does not specify records and fields of the data base requirement.

In summary, the Data Base Composition represents what information (data elements) is needed about what objects, events, or other entities (constructs) and what the safeguards connections are between these entities (relationships). The requirements analysis process identified a very large number of constructs, relationships, and data elements. In order to reduce the necessary complexity, the gathering and distribution of data have been grouped into safeguards-related functional areas called Service Modules. The concepts and methodology of Service Modules is discussed in the following section.

2.0 SERVICE MODULES

From the functional point of view, a service module provides the user a capability to obtain needed information. From the data base point of view, a service module primarily consists of a description of the outputs and inputs required by a user in a particular safeguards functional area. Ideally, inputs and outputs for a specific service module would correspond to each other without regard for other parts of the data base. In the case of ISIS, the data elements for reports in one module may be input by another module for quite another purpose. This poses no particular problems because they are linked by a common data base composition.

Thus, ISIS can be regarded as a collection of semi-independent subsets called Service Modules linked by a common data base. Service Modules are provided solely to aid in the user's comprehension of the system.

Each Service Module documented in the DDR is composed of: 1) textual description of purpose, statement of objectives, and users; 2) Output Reports; and 3) Input Forms.

The textual description of each Service Module will introduce the function being addressed by the Service Module, the potential users, and the objectives of the Service Module.

An ISIS output is a collection of information from the ISIS data base selected and processed in accordance with the documented rules. All outputs are called "Reports" even if their actual appearance on being output by ISIS is not a conventional report (e.g., tapes for other systems).

An ISIS input is a collection of data which will be used to update the data base. These inputs are called "Forms" regardless of whether their actual appearance or arrival to ISIS is on a conventional form.

Because of the integrated nature of the data base, it is possible that a Report might output a data element which did not come from one of the Service Module forms. Similarly, a form may contain data elements not used by this service module. However, in general, there is a correspondence, simply because the service module is concerned with a particular safeguards functional area.

2.1 OUTPUT REPORTS

Within the context of the ISIS system, "Output Reports" refers to any output. This may be a report listing or a magnetic tape. Each report contains a rigorous specification of which constructs are to be

selected and which data elements will appear in the report. The general format for output reports is:

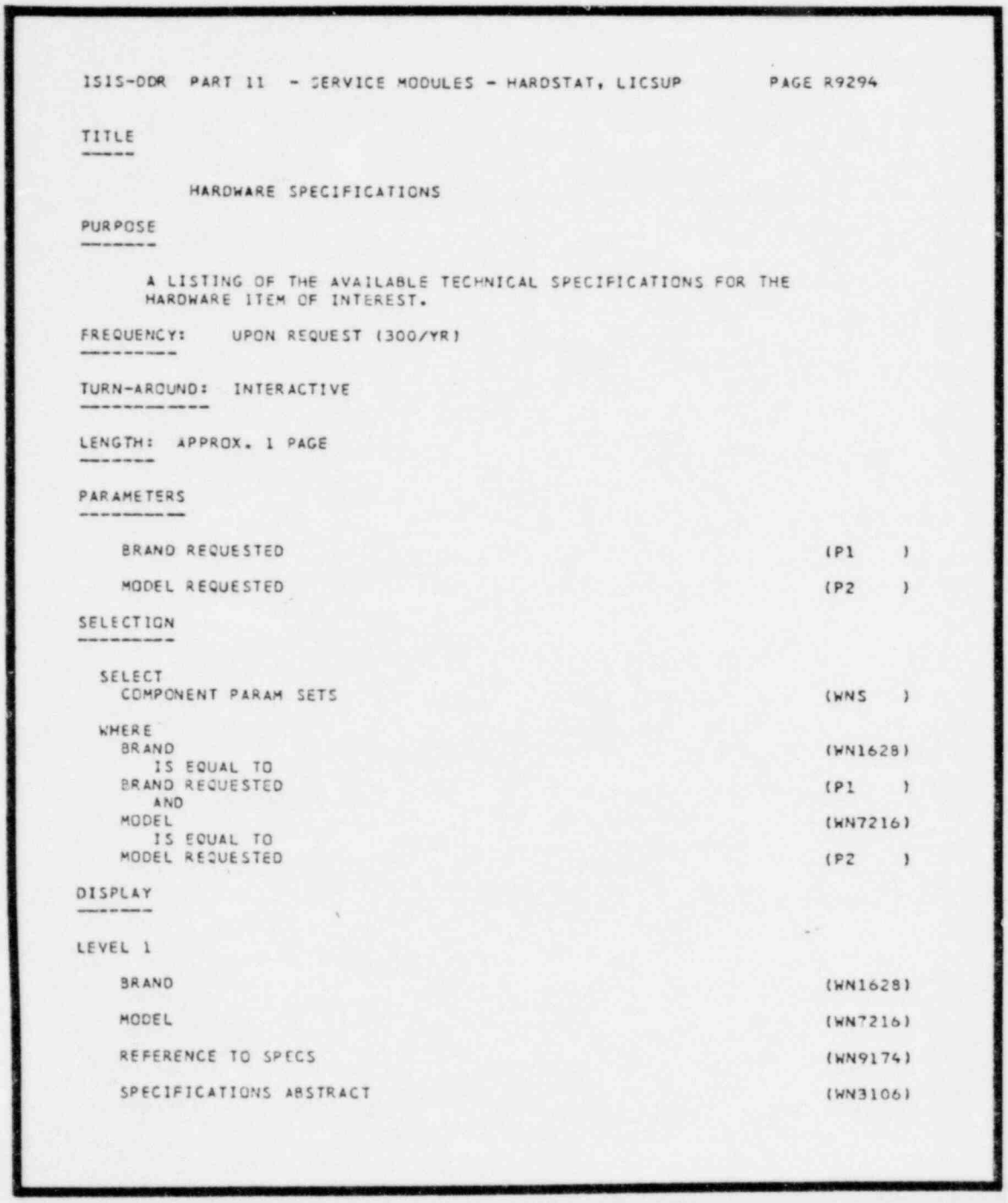
TITLE
PURPOSE
FREQUENCY
TURN-AROUND
LENGTH
PARAMETERS
SELECTION
DISPLAY
LEVEL N

Figure 2.1-1 is a sample of a report. Although this report is no longer a part of the selected system, all reports in Part II follow this format. The top line identifies the Service Module or Modules which require this report. In this example, two Service Modules are listed. This same report will appear in both Service Modules. On the right-hand ide the number R9294 refers to the ISIS identification for this report. This same Report ID would appear on all occurrences of this report, regardless of the number of Service Modules listed. TITLE indicates the name of the report. PURPOSE indicates the "intention" of the report.

The next three paragraphs: FREQUENCY, TURN-AROUND, and LENGTH are "design parameters." These data should be considered during the general design and will be even more important during detail design. A significant change in these estimates could have a great impact on system design.

The next three paragraphs combine to specify what will actually be produced when this report is asked for. An optional paragraph, CALCULATIONS, may be specified in reports for which data is needed which is a function of one or more data elements in the data base.

PARAMETERS are the user-supplied entries which, when compared (as shown in SELECTION) against values of specific data elements, determine which construct occurrences are to be selected. On the right side, in parentheses, are the DDR identifications for the parameters. These will always start with the letter "P" followed by a number. Each parameter may be a single value, a series of values, or the word "ALL" (unless otherwise stated). This means, referring to the example, that if two P1's and two P2's were entered, this would produce two reports - one for the first set of P1 and P2 and one for the second set (assuming



```
ISIS-DDR  PART 11  - SERVICE MODULES - HARDSTAT, LICSUP          PAGE R9294

TITLE
-----

          HARDWARE SPECIFICATIONS

PURPOSE
-------

      A LISTING OF THE AVAILABLE TECHNICAL SPECIFICATIONS FOR THE
      HARDWARE ITEM OF INTEREST.

FREQUENCY:     UPON REQUEST (300/YR)
----------

TURN-AROUND:   INTERACTIVE
------------

LENGTH:  APPROX. 1 PAGE
-------

PARAMETERS
----------

    BRAND REQUESTED                                          (P1     )

    MODEL REQUESTED                                          (P2     )

SELECTION
---------

  SELECT
    COMPONENT PARAM SETS                                     (WNS    )

  WHERE
    BRAND                                                    (WN1628)
       IS EQUAL TO
    BRAND REQUESTED                                          (P1     )
       AND
    MODEL                                                    (WN7216)
       IS EQUAL TO
    MODEL REQUESTED                                          (P2     )

DISPLAY
-------

LEVEL 1

    BRAND                                                    (WN1628)

    MODEL                                                    (WN7216)

    REFERENCE TO SPECS                                       (WN9174)

    SPECIFICATIONS ABSTRACT                                  (WN3106)
```

FIGURE 2.1-1 - SAMPLE OUTPUT REPORT

that the brand/model combinations exist in the data base). If the report request stated P1 = ALL and P2 = ALL, this report would be produced for every brand/model contained in the ISIS data base.

The SELECTION paragraph indicates which occurrences of which constructs are to be selected from the data base and the criteria for the selection. These always take the form: SELECT constructs WHERE condition. Note that SELECT and WHERE are "keywords" not constructs. The right-hand side, again, shows the ISIS identifications for the constructs, relationships, data elements, and parameters.

The SELECTION section is simultaneously a statement of information requirements as well as further detail in the design of that report. This requirement/design insures that the necessary data, constructs, and relationships needed to prepare a specific report are in fact a documented part of the data base.

The DISPLAY paragraph indicates which exact data elements from the selected constructs are to appear on the report. The DISPLAY paragraph is further divided into "levels." "Level 0" although not shown on the display will always contain:

- security classification on each page;
- numbers for each printed page;
- title page containing
  - report ID and title;
  - report date;
  - non-disclosure statement (if appropriate);
- list of input parameters.

The levels of the report indicate a hierarchical structure and sort criteria. In the given example only one level is specified. This indicates that the given data elements will appear only once for each set of parameters. If two sets of parameters are given, the output would be sorted in order by BRAND, MODEL, REFERENCE..., and SPECIFICATIONS.

If additional levels are specified, they can be thought of as repeating groups within the level above them. For example:

```
DISPLAY

LEVEL 1

    BRAND

    MODEL
```

LEVEL 2

SERIAL NUMBER

SITE ID

LEVEL 3

EVENT NUMBER

EVENT DATE

This sample indicates that for each selected BRAND/MODEL there will be a list of components by SERIAL NUMBER and corresponding SITE IDs. Then, for each such component, list the EVENT NUMBERs and EVENT DATEs of events the particular component of this brand model was involved in.

2.2 INPUT FORMS

"Input Form" refers to any data which arrive in the ISIS system which are used to add, modify or delete information in the ISIS data base. The DDR descriptions of Input Forms annotate the data required as input to ISIS, not the means of input (e.g., punched cards, magnetic tape, etc.).

The general format for input forms is:

TITLE

PURPOSE

LEVEL N

UPDATE KEYED BY DATA ELEMENT

REFERENCE

OTHER IDENTITY DATA

IDENTITY RELATIONSHIP

DATA RELATIONSHIP

OTHER DATA

LEVEL N is used to indicate repeating groups. That is, there may be any number of LEVEL 3 occurrences for a given LEVEL 2. This concept is analagous to the levels in the DISPLAY paragraph of the Output Reports. Successive levels in Input Forms indicate subordinate levels. As with Output Reports, there is an implied Level 0 on all Input Forms. This Level 0 contains a code to specify "ADD," "MODIFY" or "DELETE." Each LEVEL must begin with one of the two "key words" UPDATE or REFERENCE followed by a construct title. UPDATE is used if the construct mentioned can be updated by this form. REFERENCE is used to indicate that the construct cannot be updated by this form, but is needed for identification purposes. OTHER IDENTITY DATA is used to enter any additional data elements other than "KEYED BY" data elements required to uniquely identify the construct.

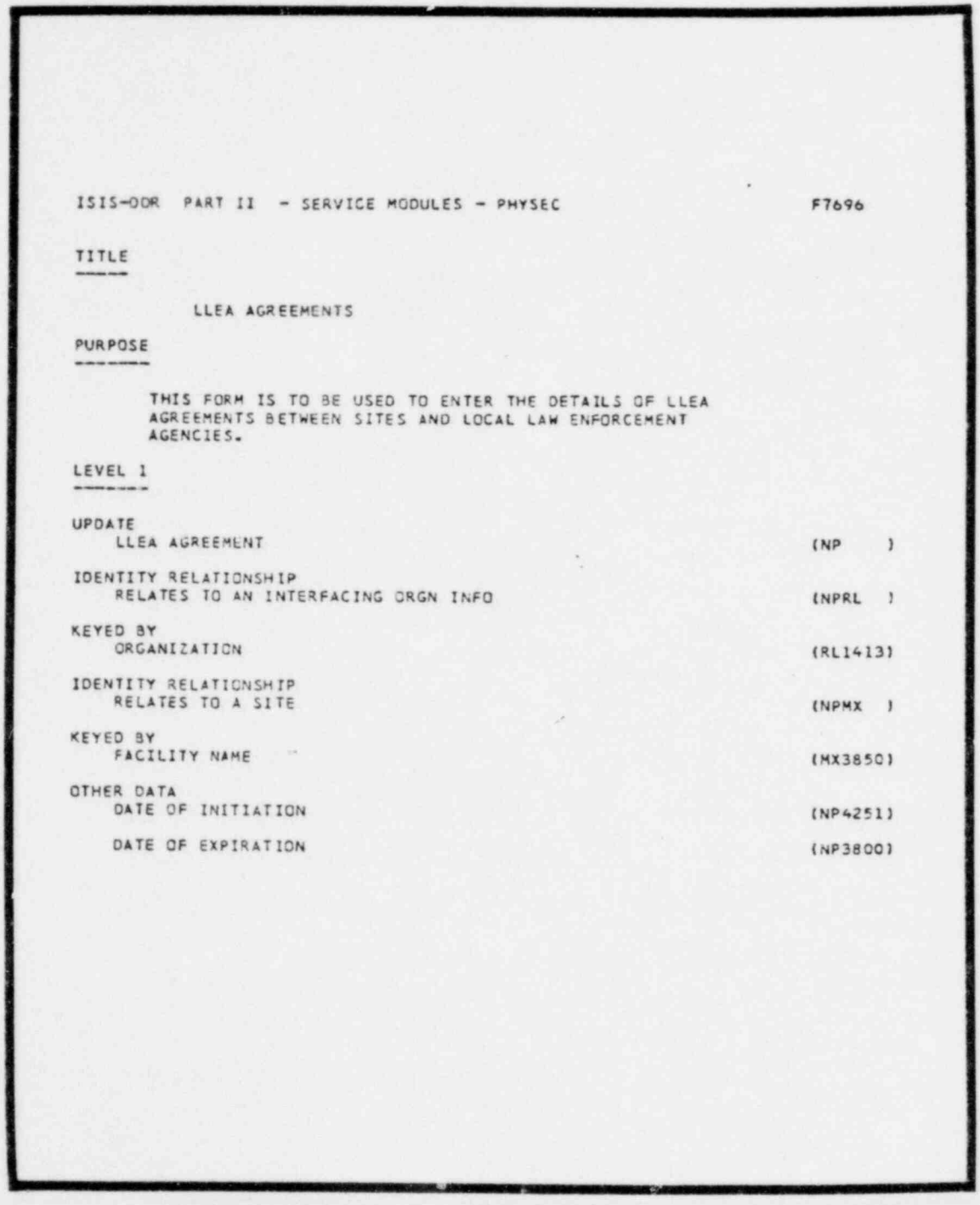
IDENTITY RELATIONSHIP is used to specify a mandatory superior relationship. That is, a relationship which must be identified in order to update a construct. For example, in order to add a COMPONENT, the relationship "belongs to a COMPONENT GROUP" is mandatory and the new COMPONENT cannot be added without the GROUP being specified.

DATA RELATIONSHIP is used to specify a relationship which is not mandatory, but may be present. For example, when an INSPECTION OBSERVATION is about a specific COMPONENT the relationship "INSPECTION OBSERVATION may apply to COMPONENT" should be built by this input form. If the OBSERVATION were not about a COMPONENT, the relationship would not be included. The OTHER DATA paragraph is used to indicate which data elements in the "UPDATED" construct may be included on this form (in addition to the KEYED BY data elements).

As with the Output Reports and Data Base Composition formats, the right-hand side of the Input Form contains ISIS identifications for the constructs, relationships, and data elements.

An example of an Input Form is shown in Figure 2.2-1. This form is used to add, modify, or delete information about LLEA Agreements (no longer a part of the selected capability). The top line indicates the Service Module which is responsible for the form along with the ISIS Form ID. Next, the TITLE and PURPOSE explain the intent of the form. Note that there is only one level to the form. That is, there are no subordinate constructs which will be updated by this same form.

The remainder of the form indicates that one LLEA AGREEMENT will be stored (or updated or deleted) by identifying the SITE and the INTERFACING ORGN to which this agreement pertains. The two data elements, DATE OF INITIATION and DATE OF EXPIRATION are the only data elements which this particular form can maintain. It can also maintain the two relationships, "relates to an INTERFACING ORGN" and "relates to a SITE."



ISIS-ODR PART II - SERVICE MODULES - PHYSEC F7696

TITLE

LLEA AGREEMENTS

PURPOSE

THIS FORM IS TO BE USED TO ENTER THE DETAILS OF LLEA AGREEMENTS BETWEEN SITES AND LOCAL LAW ENFORCEMENT AGENCIES.

LEVEL 1

UPDATE
LLEA AGREEMENT (NP)

IDENTITY RELATIONSHIP
RELATES TO AN INTERFACING ORGN INFO (NPRL)

KEYED BY
ORGANIZATION (RL1413)

IDENTITY RELATIONSHIP
RELATES TO A SITE (NPMX)

KEYED BY
FACILITY NAME (MX3850)

OTHER DATA
DATE OF INITIATION (NP4251)

DATE OF EXPIRATION (NP3800)

FIGURE 2.2-1 - SAMPLE INPUT FORM

3.0 DATA BASE COMPOSITION

Part III of the DDR Data Base Composition rigorously describes the constructs, relationships, and data elements which make up the ISIS data base. A diagramming technique has been employed to assist in visualizing the content of the Data Base Composition. The "Data Base Diagram" is shown in Part III of the DDR. Each construct listed in the DDR corresponds to an oval on the Data Base Diagram. Each relationship, expressed in words in the DDR, corresponds to a line between two ovals on the diagram. In addition, these descriptions show the actual data elements by construct for which information is to be maintained.

Figure 3.0-1 shows a sample page out of the Data Base Composition. The right-hand side of the page contains construct IDs, relationship IDs and data element IDs.

The remainder of each page is fairly self-explanatory. The construct name (both singular and plural forms) is listed first, followed by:

- relationships to superior constructs;
- relationships to subordinate constructs;
- data elements.

Some of the constructs and data elements have descriptions or notations which can be found indented under the appropriate name. The sample page, Figure 3.0-1, follows this format. It is page Number 474 in the Data Base Composition. The construct name is INSP/INVESTIGATION, and its purpose, as indicated, is to record the occurrence of an on-site inspection/investigation. The volume figures given are used in the design process, and are not critical to the understanding of the definition of safeguards requirements.

ISIS DDR PART II DATA BASE COMPOSITION

INSP/INVESTIGATION (WZ)
INSP/INVESTIGATIONS (WZS)

AS DEFINED BY CURRENT OPERATIONS, THE INSP/INVEST REPORT CONSTRUCT IS THE RECORD OF A SINGLE 766 FORM.
IT IS THE RECORD OF THE OCCURRENCE OF AN ON-SITE INSPECTION/INVESTIGATION.

OPT. SIZE = 200 MAX. SIZE = 300
OPT. OCCUR. = 15000(5-YR) MAX. OCCUR. = 20000(5-YR)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS REFERENCED TO LICENSE (WZNM)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

MAY RESULT IN EVENT DOCUMENTATION (WZMN)
APPLIES TO MOD INSP UNIT (WZCG)

*DATA ELEMENTS

FACILITY NAME (FROM 766) (WZ6609)

LICENSEE/VENDOR (FROM 766) (WZ2849)

REPORT NUMBER (WZ7964)
- YY##

INSPECTOR/INVESTIGATOR NAME (WZ3630)
- ALLOW FOR TEN NAMES

REVIEWER'S NAME (WZ6356)

PRINCIPAL INSPECTOR/INVESTIGATOR NAME (WZ4818)

FROM DATE (INQ/INVEST/INSP) (WZ1738)
- MMDDYY START DATE OF ACTIVITY

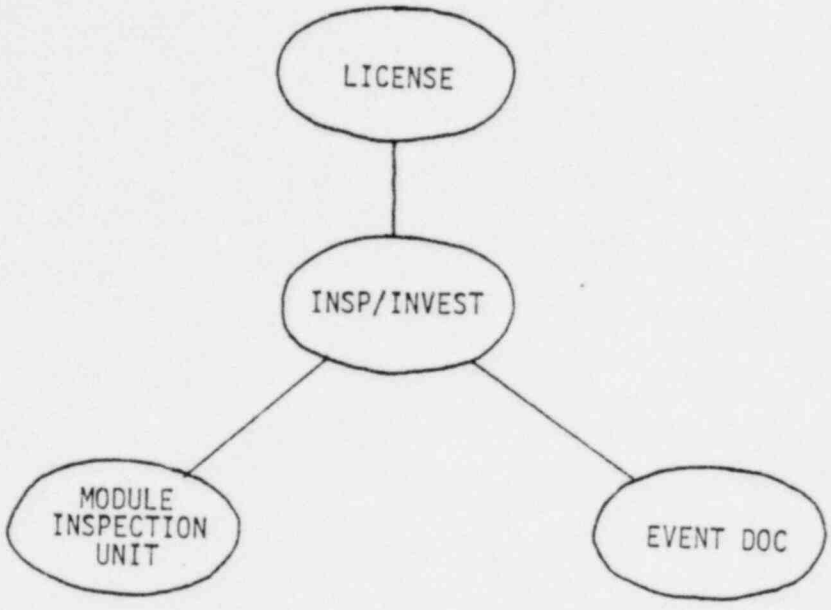
TO DATE (INQ/INVEST/INSP) (WZ3234)
- MMDDYY END DATE OF ACTIVITY

REGION CONDUCTING ACTIVITY (WZ8426)
- REGION #

-474-

Figure 3.0-1 Data Base Composition Sample

The "relationship" paragraphs indicate that this construct has one superior relationship and two subordinate relationships. Diagrammatically:



This structure may be found in context with the total logical data base diagram in PART III of this Appendix. Note that the expressions of the subordinate relationships use the plural form of the construct name, consistent with the concept that an owner (superior construct) may own multiple occurrences of a subordinate construct.

In the "data elements" paragraph is a list of data elements contained in this construct. In this case, there are several data elements that will be kept concerning an INSP/INVESTIGATION. Note that the number of the particular license involved is not indicated as a data element. This is obtained through the established superior relationship, in accordance with the concept that an occurrence of a construct has only one applicable occurrence of a superior construct. Note also that if other information concerning superior constructs is desired, such as their data elements or relationships to other constructs, each construct must be located separately in the data base composition.

3.1 DATA BASE COMPOSITION METHODOLOGY

Having initially postulated an ISIS data base compositon at the construct/relationship level, the analyst proceeds to document the data

elements under the following restrictions:

- no repeating data;
- no duplicate data.

"No repeating data" means that there are no data elements or groups of data elements which contain multiple values. For example, if each licensee could have one and only one license, then the data element "license number" could be stored in the LICENSEE construct. However, since licensees may be granted many licenses, it is necessary to define another construct LICENSE which is subordinate to LICENSEE. The data element "license number" will now be stored in the construct LICENSE. Each occurrence of the construct LICENSE will have only one "license number" data element but there may be any number of occurrences of LICENSE associated with a single LICENSEE construct occurrence.

"No duplicate data" means that the same data values are not stored in different constructs. Using the same example, if the data element "license number" is stored in the LICENSE construct, then that construct is the only construct containing that information. Any Output Report or Input Form requiring a "license number" must access the construct LICENSE to obtain that data. For the benefit of data processing experts, note that this does not restrict duplicate data from occurring in ISIS physical data base. This is a decision to be made later based on technical/performance/cost considerations.

3.2 SPECIAL CAPABILITIES

Because of the complex nature of NRC safeguards data, several special capabilities have been added to the requirements definition methodology to make the DDR more useful:

- cataloged constructs;
- historical data;
- subconstructs.

Cataloged constructs are constructs in which many occurrences of a single construct are all related through a hierarchy.

Historical data are data elements of a construct, the values of which are to be retained when replaced.

Subconstructs are collections of data elements which apply to a construct only if it is of a certain type. For example, components have

data elements which apply only if the component is a piece of measurement related (material accounting) equipment.

3.2.1 Cataloged Constructs

The purpose of catalog capability is to provide NRC with the capability to dynamically create construct hierarchies without system design changes. The data elements associated with a cataloged construct are stored in that construct. The construct hierarchy is stored in the construct CATALOG ENTRY. For example, the construct LICENSE TEXT is cataloged. Many occurrences of the LICENSE TEXT construct may be required to completely store the references to the sections of a single license. There is a hierarchy associated with the text of the license in that the license as a whole may be divided into plans, each plan into sections, each section into subsections, each subsection into paragraphs, etc.. . . There may be one occurrence of the LICENSE TEXT construct for each paragraph in the license. The hierarchy stored in the CATALOG ENTRY construct would identify for each paragraph the corresponding subsection, section, plan, license. If another construct owns a cataloged construct then it simultaneously owns the entire hierarchy. If a cataloged construct owns another construct, then all constructs upward in the hierarchy also own the given construct.

3.2.2 Historical Data

The ordinary update action of ISIS is to replace an existing value of a data element with a new value, resulting in loss of the old value. In general, this is desirable as it is very confusing and burdensome to keep a complete history of all data.

However, in certain cases, it is required that the old values be retained. For example, if a possession limit changes, the old value still applies to material possessed in the past. Similarly material inventory data needs to be kept.

For this reason, the capability exists to identify data elements in the data base composition as historical, grouping them under an effective date. An update which does not specifically name an effective date will result in the addition of a new set of data with effective date of "today."

Any constructs stored subordinate to a construct with historical data will, in lieu of instructions to the contrary (an effective date specified), be stored subordinate to the latest values.

Similarly, in the case of output, only the most recent set of data will be referenced unless the effective date criterion is added.

3.2.3 Subconstructs

The purpose of defining subconstructs is to achieve the benefit of commonality between like constructs while not losing sight of their uniqueness. A subconstruct has no identity, normally, distinct from the construct identity. It does not "repeat," and hence no ambiguity exists with respect to input or output.

For example, the construct COMPONENT TYPE has as one of its subconstructs, VEHICLE TYPE. This means that:

- some safeguards components are types of vehicles;
- a vehicle type is a component.

At the construct level are recorded all data elements and relationships in common between a vehicle type component and all other component types (also represented as subconstructs; e.g., CONTAINER TYPE, PERSONNEL TYPE, etc.). At the subconstruct level are identified all data elements and relationships which are unique to vehicle types of components.

3.3 DATA BASE TERMINOLOGY

The following is a list of some terms used in the preceding discussion, and to be used later, defined briefly, and in alphabetical order:

1. Cataloged Construct - A construct having an internal hierarchy defined in each individual case by input to ISIS.
2. Computation - A function performed on specified data units.
3. Computational Result - A data unit produced by ISIS as a function of other data units.
4. Construct - An entity about which data are maintained, presumed by ISIS to exist and have characteristics in accordance with the transaction received to date.
5. Cross-reference - A relationship in which both constructs function as both owner and member.
6. Data Element - A data unit which describes a construct.
7. Data Unit - A numeric value, date, or textual datum which is processed as a unit.
8. Form - An input to ISIS.

9. Function - A formula or translation used in computations.

10. Historical Data - Data which should be retained in active status when replaced.

11. Member - With respect to a given relationship, the member is the multiple occurrence construct.

12. Owner - With respect to a given relationship, the owner is the single-occurrence construct.

13. Parameter - A data unit provided by the user that identifies or bounds the information requested on output or provided on input.

14. Report - An output from ISIS.

15. Selection - The process of deciding what data is to be output.

16. Service Module - A subset of the ISIS forms and reports; a subset of ISIS capability that serves a particular safeguards information requirement.

17. Subconstruct - A data element set which is applicable to the construct only in certain cases.

18. Transaction - Another term for forms. A transaction is a unit of input with a single intent. For example, to report that an inspection took place or that a shipment occurred.

DETAILED DEFINITION OF REQUIREMENTS

PART II

SERVICE MODULES

INSPECTION PLANNING (INSPLN)

1.0 ABSTRACT

The Inspection Planning Service Module, INSPLN, will provide to the inspectors in the regions a set of reports which will be useful to them in planning for the inspection of a specified I&E manual chapter (inspection module) at a particular location.

INSPLN will include a historical report indicating the licensee's previous performance in meeting the standards associated with a particular inspection module. A reported history of clear inspections or, at the other end of the spectrum, inspections which included items of deviation and/or noncompliance, should alert the inspector to the situation he might expect to find at the facility. He must also be informed concerning corrective action status.

A second report in INSPLN will provide up-to-date information on the appropriate parts of the license and license conditions. A license status report will indicate dates of licensee/license work flow revisions so that the inspector can make his plans, confident that he is using up-to-date information and that he is interpreting the historical report in the proper light. A third report will list license-specific inspection details. Thus, the inspector can be assured that his plan is based on the most current version of the license and license conditions and that his review of those documents is comprehensive.

A fourth report included with INSPLN has to do with inspection items. It will list items still to be inspected for a specified inspection module under a specified license.

2.0 PURPOSE OF INSPLN

2.1 FUNCTIONS AND CAPABILITIES

The purpose of INSPLN is to provide inspectors with license-specific and general information needed to plan for a scheduled inspection. It supports the safeguards-related functions identified in the organizational-information requirements analysis reported in Sections 2 and 4 of the ISIS Phase I Report. INSPLN should expedite the planning for an inspection by providing much of the background information automatically, using the comprehensive information that is currently available.

INSPLN will be able to make use of automated data sources which can in turn be used to generate reports indicating license status, licensee performance, and inspection guidance documents. The expanding requirement for OIE to inspect the compliance with a license and with license conditions increases inspection loads, and it is projected that the need to document, assimilate and distribute both data and information throughout NRC will also grow. In addition, the need is developing to: (1) be aware of trend indicators, and (2) use the results of inspections in technical site-specific safeguards effectiveness evaluation. INSPLN will relieve some of the administrative planning which must now be done by hand, from experience and knowledge. It will also assure uniform excellence in the planning process as an aid to more effective inspections.

In the sense that it will relieve some of the inspection preparatory work, INSPLN will serve to help the inspectors in their inspection review, evaluation, and recommendation functions.

2.2 CURRENT OR PROJECTED INFORMATION NEEDS

The support to be provided by INSPLN will serve current needs, as indicated by information work sheet comments from OIE and Regional Offices reported in Section 4.1 of the Phase I ISIS Report. INSPLN also will satisfy a future need to provide automated inspection planning support. That support should allow continued excellence of the inspection program, while at the same time freeing a portion of the inspectors' schedules to take advantage of their ability to provide carefully considered evaluation of inspection results. INSPLN will also provide a vital service to inspectors if the inspection work load per inspector should increase as a result of nuclear industry growth.

The data needed as input to the reports which together constitute INSPLN would ideally be available from automated sources. In some cases, such sources already exist. The I&E inspection module historical report for

a particular facility is, in large part, to be constructed from information currently processed through the inspection reporting (766/766S) system on the NIH computer. The textual inspection reports, evaluation memos for an inspection, PNs and LERs could also constitute part of the historical reports, but are not currently part of an automated system. The license status report of INSPLN would provide license-specific data such as dates of the licensee physical security or material control and accounting plans, as well as the status of changes in progress.

3.0 RELATION OF INSPLN TO EXISTING NRC SYSTEMS

The statistical data reporting system (766 computer system) on the NIH computer will supply much of the data needed to construct the inspection module historical report for a specified facility.

The 766 numbering system can be used in part to identify the files needed, since it includes the docket number (license number). To be used in the mode envisioned for INSPLN, the specific inspection module inspected must be code-entered so that historical data for that type of inspection can be extracted from the 766 data base. The same requirements exist in terms of identification and access to data input to the 766 computer system data base by the form 766S. (See ISIS Phase II Report for further details on the 766/766S system.)

INSPLN relates directly to an automated system being developed in the NRC regional offices, the Outstanding Item List (OIL). This system lists for inspectors those inspection items flagged on previous visits, or on incompleted modules. In order to best provide the INSPLN/OIL capability, some new data elements will be needed on the 766/766S forms.

4.0 NRC OFFICES INVOLVED IN INSPLN

4.1 REPORT USERS

The inspector at the regional level will be the user of the INSPLN Service Module reports.

4.2 INPUT RESPONSIBILITIES

Data to be stored in the INSPLN data base constructs will be generated and input by: (a) the 766/766S computer system, (b) ONMSS for licenses (dates and status) not reactor-related, (c) ONRR for reactor-related licenses, and (d) OIE Headquarters for I&E manual chapter status.

4.3 DATA QUALITY

Since INSPLN does not have its own input data, no question of input data quality arises.

4.4 ACCESS CONTROL

OIE Headquarters and appropriate regional offices should have access control over those portions of INSPLN which are classified or sensitive (proprietary).

5.0 MODULE DATA BASE

Figure 5.1 shows the fourteen (14) constructs which are accessed to produce the four reports. This module does not create any update of any constructs.

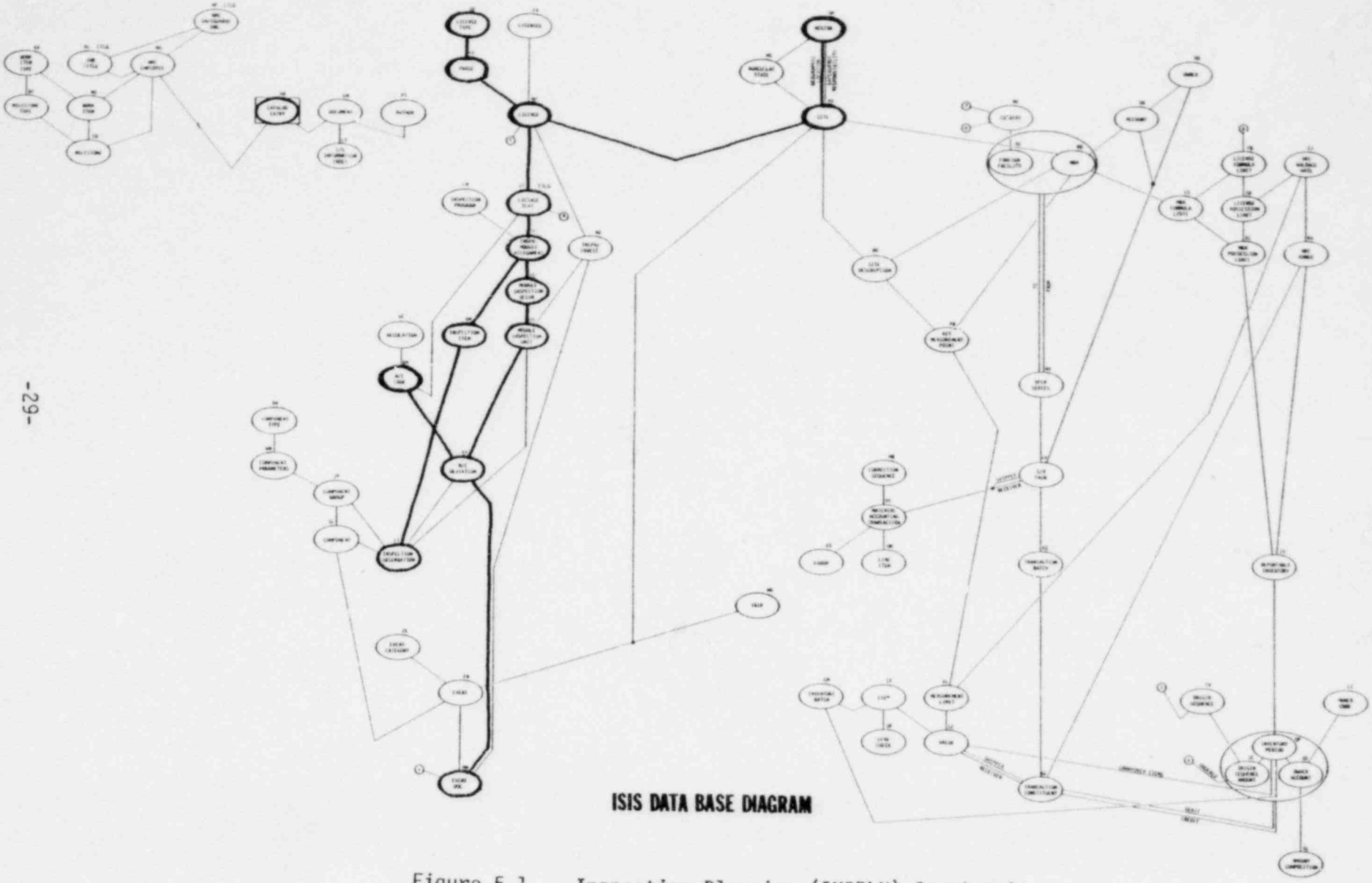


Figure 5.1 Inspection Planning (INSPLN) Constructs

6.0 OUTPUT REPORTS AND INPUT FORMS

6.1 LIST OF OUTPUT REPORTS

Report Number	Report Title
R7163	Inspection Module Historical Report
R3973	Copy of All Versions of a Section(s)
R9822	Frequency of Inspection Report
R7906	Inspection Item Checklist

6.2 LIST OF INPUT FORMS

Form Number	Form Title
None	

TITLE

INSPECTION MODULE HISTORICAL REPORT

PURPOSE

THIS REPORT LISTS THE CURRENT INSPECTION STATUS AND THE NON-COMPLIANCE HISTORY FROM THE LAST COMPLETED INSPECTION OF A SPECIFIED INSPECTION MODULE UNDER A SPECIFIED LICENSE NUMBER.

FREQUENCY: ON DEMAND, FOR EACH SCHEDULED INSPECTION (3K/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 1 PAGE

PARAMETERS

LICENSE NUMBER	TYPE LENGTH	FIXED TEXT 13	(P1)
MODULE NUMBER	TYPE LENGTH	FIXED TEXT 7	(P2)

SELECTION

SELECT
INSP MOD ASSIGNMENTS (IFS)
AND VIA
IS A MEMBER OF LICENSE TEXT (IFZT)
THE CORRESPONDING
LICENSE TEXT (ZT)
AND VIA
IS OWNED BY LICENSE (ZTNH)
THE CORRESPONDING
LICENSE (NH)
AND VIA
CROSS REF SITE (NHMX)
THE ASSOCIATED
SITES (MXS)
AND VIA
IS GEOGRAPHICALLY LOCATED IN REGION (MXSMG)
THE CORRESPONDING
REGION (SM)
WHERE
MODULE ID NUMBER (IF8712)
EQUAL
MODULE NUMBER TYPE LENGTH FIXED TEXT 7 (P2)
AND
LICENSE NUMBER (NH2655)
EQUAL
LICENSE NUMBER TYPE LENGTH FIXED TEXT 13 (P1)

THEN VIA
HAS MOD INSP OCCURRENCES (IFKG)

```
1) THE LATEST
    MOD INSP OCCURRENCE                                    (KG     )
 WHERE
    STATUS                                                 (KG1826)
 EQUAL CLOSED
AND THEN VIA
    HAS MODULE INSP UNITS                                  (KGCG   )

WHICH
    HAS N/C DEVIATIONS                                     (CGVX   )

    N/C DEVIATIONS                                         (VXS    )
 AND VIA
    IS DEFINED BY N/C CODE                                 (VXBN   )
 THE CORRESPONDING
    N/C CODE                                               (BN     )

THEN, FOR EACH SELECTED
    N/C DEVIATION                                          (VX     )
 VIA
    RESULTS IN EVENT DOCUMENTATIONS                        (VXMN   )

    LICENSEE EVENT REPORT                                  (LGS    )

    PN DOCUMENTATION                                       (NQS    )

2) THE LATEST
    MOD INSP OCCURRENCE                                    (KG     )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    LICENSE NUMBER                                         (NM2655)

    LICENSEE NAME CODE                                     (NM1562)

LEVEL 2
    REGION NUMBER                                          (SM2838)

    FACILITY NAME                                          (MX3850)

LEVEL 2
IN ASCENDING ORDER
    MODULE ID NUMBER                                       (TF8712)

DATA ASSOCIATED WITH THE LATEST
    MOD INSP OCCURRENCE                                    (KG     )

    STATUS                                                 (KG1826)

    MODULE INSPECTION START DATE                           (KG9295)

DATA ASSOCIATED WITH THE
    MOD INSP OCCURRENCE                                    (KG     )
 WHERE
    STATUS                                                 (KG1826)
 EQUAL CLOSED
    MODULE INSPECTION START DATE                           (KG9295)
```

DATE OF INSPECTION COMPLETION (KG0385)

LEVEL 4
CODE ID (BN3909)

NC DEVIATION CODE SUFFIX (VX9427)

CAUSE CODE (VX0924)

PROCEDURE CODE (VX1710)

SEVERITY CODE (VX1820)

FUNCTIONAL AREA CODE (VX2457)

LEVEL 5
LER REPORT NUMBER (LG0104)

LEVEL 5
PN NUMBER (NQ7282)

TITLE

COPY OF ALL VERSIONS OF A SECTION(S)

PURPOSE

WHEN THERE IS AN INTEREST IN THE EVALUATION OF A SECTION OR SECTIONS OF A LICENSE, THIS REPORT IS USED. BY REQUESTING SECTION/PARAGRAPH NUMBER WITH NO "DATE" PARAMETER, ALL OF THE VERSIONS IN THE HISTORY OF THAT SECTION WILL BE GENERATED. A "DATE" PARAMETER MAY BE SPECIFIED IF ALL VERSIONS SINCE THAT DATE ARE DESIRED.

FREQUENCY: ON REQUEST (4500/YR)

TURN-AROUND: OVERNIGHT

LENGTH: 3000 CHARACTERS

PARAMETERS

LICENSE OR DOCKET NUMBER DESIRED	TYPE LENGTH	FIXED TEXT 9	(P1)
TEXT IDENTIFIER DESIRED	TYPE LENGTH	FIXED TEXT 9	(P2)
INTEREST DATE	TYPE LENGTH	FIXED TEXT 6	(P3)

SELECTION

SELECT			
LICENSE			(NH)
WHERE			
LICENSE NUMBER			(NH2655)
OR			
DOCKET NUMBER			(NH2112)
IS EQUAL TO			
LICENSE OR DOCKET NUMBER DESIRED	TYPE LENGTH	FIXED TEXT 9	(P1)
AND			
VIA			
APPLIES TO PHASE			(NHKV)

```
   PHASE                                                          (KV     )

 AND
 VIA
   FURTHER DEFINES LICENSE TYPE                                   (KVVB   )

   LICENSE TYPE                                                   (VB     )

 AND
 VIA
   HAS LICENSE TEXTS                                              (NHZT   )

   LICENSE TEXTS                                                  (ZTS    )
WHERE 1)
   LICENSE TEXT SUBSET IDENTIFIER                                 (ZT6798)
IS EQUAL TO OR LESS THAN

   TEXT IDENTIFIER DESIRED          TYPE        FIXED TEXT        (P2     )
                                    LENGTH      9

 AND WHERE 2) WHEN
   INTEREST DATE                    TYPE        FIXED TEXT        (P3     )
                                    LENGTH      6
IS SPECIFIED,
 A)
   EFFECTIVE DATE                                                 (ZT6820)
IS EQUAL TO OR IS MOST RECENT LESS THAN

   INTEREST DATE                    TYPE        FIXED TEXT        (P3     )
                                    LENGTH      6

 B)
   EFFECTIVE DATE                                                 (ZT6820)
IS GREATER THAN

   INTEREST DATE                    TYPE        FIXED TEXT        (P3     )
                                    LENGTH      6


DISPLAY
-------

LEVEL 1
   LICENSE NUMBER                                                 (NH2655)

   DOCKET NUMBER                                                  (NH2112)

   LICENSING AUTHORITY INDICATOR                                  (NH0473)

   LICENSEE NAME CODE                                             (NH1562)

   PRIORITY/CATEGORY                                              (NH0253)

   SAFEGUARDS GROUP NUMBER                                        (NH3839)

   AMENDMENT REFERENCE                                            (NH3366)

   AMENDMENT DATE                                                 (NH7700)
```

TITLE OF PHASE (KV3597)

PHASE IDENTITY (KV1819)

TITLE OF LICENSE TYPE (VB0374)

LEVEL 2
LICENSE TEXT SUBSET IDENTIFIER (ZT5798)

EFFECTIVE DATE (ZT6820)
IN DESCENDING ORDER
LICENSE TEXT STATUS (ZT8613)

MICROFICHE NUMBER (ZT3729)

SUBMITTAL DATE (ZT4928)

APPROVAL DATE (ZT5676)

TERMINATION DATE (ZT7392)

REJECTED DATE (ZT4877)

TITLE

FREQUENCY OF INSPECTION REPORT

PURPOSE

THE PURPOSE OF THIS REPORT IS TO GENERATE THE LICENSE-SPECIFIC INSPECTION DETAILS. THESE INCLUDE INSPECTION MODULE ASSIGNMENTS AND THE FREQUENCY OF INSPECTION REQUIRED, AND THE IDS OF ASSOCIATED INSPECTION ITEMS. DIFFERENT SECTIONS OF THE LICENSE HAVE ASSOCIATED A UNIQUE SET OF MODULE ASSIGNMENTS.

FREQUENCY: ON REQUEST

PARAMETERS

LICENSE OR DOCKET NUMBER DESIRED	TYPE LENGTH	FIXED TEXT 9	(P1)
TEXT IDENTIFIER DESIRED	TYPE LENGTH	FIXED TEXT 9	(P2)

SELECTION

```
  SELECT
    INSP MOD ASSIGNMENTS                                    (TFS    )

  AND
  VIA
    HAS INSPECTION ITEMS                                    (TFDN   )

    INSPECTION ITEMS                                        (DNS    )
WHERE
    DATE TERMINATED                                         (DN4213)
IS SPACES
 AND
 VIA
    IS A MEMBER OF LICENSE TEXT                             (TFZT   )

    LICENSE TEXT                                            (ZT     )
WHERE
    EFFECTIVE DATE                                          (ZT6820)
IS THE LATEST DATE
 AND
 WHEN
    TEXT IDENTIFIER DESIRED                 TYPE  FIXED TEXT (P2    )
                                            LENGTH 9
```

```
WHERE
   LICENSE TEXT SUBSET IDENTIFIER                                    (ZT6798)
IS EQUAL TO
   TEXT IDENTIFIER DESIRED                  TYPE      FIXED TEXT     (P2     )
                                            LENGTH    9

 AND
 VIA
   IS OWNED BY LICENSE                                               (ZTNH   )

   LICENSE                                                           (NH     )
WHERE
   LICENSE NUMBER                                                    (NH2655)
IS EQUAL TO
   LICENSE OR DOCKET NUMBER DESIRED         TYPE      FIXED TEXT     (P1     )
                                            LENGTH    9
```

DISPLAY

```
LEVEL 1
   LICENSE NUMBER                                                    (NH2655)

   DOCKET NUMBER                                                     (NH2112)

   LICENSING AUTHORITY INDICATOR                                     (NH0473)

   PRIORITY/CATEGORY                                                 (NH0253)

   SAFEGUARDS GROUP NUMBER                                           (NH3839)

   AMENDMENT REFERENCE                                               (NH3366)

   AMENDMENT DATE                                                    (NH7700)

LEVEL 2
  VIA
   HAS LICENSE TEXTS                                                 (NHZT   )

   LICENSE TEXT SUBSET IDENTIFIER                                    (ZT6798)
IN ASCENDING ORDER
   LICENSE TEXT STATUS                                               (ZT8613)

   EFFECTIVE DATE                                                    (ZT6820)

LEVEL 3
   MODULE ID NUMBER                                                  (TF8712)
IN ASCENDING ORDER
   FREQUENCY OF REQUIRED INSPECTIONS                                 (TF8195)

LEVEL 4
   INSPECTION ITEM IDENTIFICATION                                    (DN8547)
IN ASCENDING ORDER
   INSPECTION ITEM DESCRIPTION                                       (DN3201)

   DATE EFFECTIVE                                                    (DN1342)

   INSPECTION ITEM PERFORMANCE CRITERIA                              (DN2794)
```

TITLE

INSPECTION ITEM CHECKLIST

PURPOSE

THIS REPORT LISTS INSPECTION ITEMS TO BE INSPECTED FOR A SPECIFIED INSPECTION MODULE UNDER A SPECIFIED LICENSE. IF THE MODULE IS CURRENTLY IN OPEN STATUS ONLY THOSE ITEMS WHICH HAVE NOT BEEN INSPECTED WILL BE LISTED. IF THE MODULE IS IN CLOSED STATUS ALL INSPECTION ITEMS WILL BE LISTED.

FREQUENCY: ON DEMAND, FOR EACH SCHEDULED INSPECTION (3K/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

LICENSE NUMBER	TYPE LENGTH	FIXED TEXT 13	(P1)
MODULE NUMBER	TYPE LENGTH	FIXED TEXT 7	(P2)

SELECTION

SELECT
INSP MOD ASSIGNMENTS (TFS)
AND VIA
IS A MEMBER OF LICENSE TEXT (TFZT)
THE CORRESPONDING
LICENSE TEXT (ZT)
AND VIA
IS OWNED BY LICENSE (ZTNH)
THE CORRESPONDING
LICENSE (NH)
WHERE
MODULE ID NUMBER (TF8712)
EQUAL
MODULE NUMBER TYPE FIXED TEXT (P2)
LENGTH 7
AND
LICENSE NUMBER (NH2655)
EQUAL
LICENSE NUMBER TYPE FIXED TEXT (P1)
LENGTH 13
THEN
1) VIA
HAS INSPECTION ITEMS (TFDN)
INSPECTION ITEMS (DNS)
AND VIA
HAS INSP OBSERVATIONS (DNLT)
THE LAST
INSP OBSERVATION (LT)

```
2) VIA
    HAS MOD INSP OCCURRENCES                                    (TFKG  )
 THE LAST
    MOD INSP OCCURRENCE                                         (KG    )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    LICENSE NUMBER                                              (NH2655)

    LICENSEE NAME CODE                                          (NH1562)

    LICENSING AUTHORITY INDICATOR                               (NH0473)

    PRIORITY/CATEGORY                                           (NH0253)

    SAFEGUARDS GROUP NUMBER                                     (NH3839)

    AMENDMENT REFERENCE                                         (NH3366)

    AMENDMENT DATE                                              (NH7700)

LEVEL 2
IN ASCENDING ORDER
    MODULE ID NUMBER                                            (TF8712)

NOT PRINTED
    STATUS                                                      (KG1826)

    MODULE INSPECTION START DATE                                (KG9295)

LEVEL 3
PRINT
    INSPECTION ITEM IDENTIFICATION                              (DN8547)

    INSPECTION ITEM PERFORMANCE CRITERIA                        (DN2794)

    ITEM SOURCE                                                 (DN7920)

    INSPECTION ITEM DESCRIPTION                                 (DN3201)
 ONLY IF 1)
    STATUS                                                      (KG1826)
 EQUAL CLOSED
OR 2)
    OBSERVATION DATE                                            (LT3227)
 LESS THAN
    MODULE INSPECTION START DATE                                (KG9295)

THEN IF
    INSPECTION ITEM IDENTIFICATION                              (DN8547)
 IS PRINTED
PRINT
    OBSERVATION TEXT                                            (LT7513)

    INFORMATION FOR SUBSEQUENT INSPECTION                       (LT2684)

    OBSERVATION FINDING                                         (LT4587)
```

INSPECTION SCHEDULING ASSISTANCE (INSKED)

1.0 ABSTRACT

This module will provide reports indicating the status of all of the inspection modules for each facility and the dates by which each of these modules must be completed.

These reports will be generated on demand and will provide several options on form, content and time period. The reports may cover all licensed facilities, the facilities under jurisdiction of a particular region, or one particular facility.

2.0 PURPOSE OF INSKED

2.1 FUNCTIONS AND CAPABILITIES

The purpose of this module is to provide the visibility required by the person in each region responsible to generate and maintain a schedule of licensee inspections.

2.2 CURRENT OR PROJECTED INFORMATION NEEDS

Currently, the personnel directly involved with the generation and maintenance of inspection schedules varies from region to region. Generally, individual inspectors are assigned prime responsibility for certain sites and are responsible for generating inspection schedules for those sites. These individual schedules are then compiled into a monthly schedule by one person responsible for the maintenance of that schedule. At this point, the section chiefs provide their input and the Safeguards Branch Chief has the ultimate approval responsibility for the schedule and any major changes. In practice, the schedule changes almost daily.

The information to be made available to the scheduler is captured in the Module Tracking System (MTS) section of the NRC 766 forms. This information will provide the status of each of the inspection modules and the effort required to complete them.

The NRC requirements relative to inspection frequencies will be coupled with the above information to identify those modules which are in danger of not being completed within the time period specified by NRC.

As stated above, the data required for this module are captured on the NRC 766 forms. No new forms or data input requirements need be imposed on either the licensee or regional personnel for the INSKED Module.

3.0 RELATION OF INSKED TO EXISTING NRC SYSTEMS

Currently, inspection scheduling visibility is provided by means of a large magnetic or otherwise changeable display board normally hung in the safeguards branch chief's office. This board displays inspections that have been performed for each licensee over the past two or three years. Facilities milestones and other pertinent information are also displayed on this board.

This is a very useful scheduling aid and it also provides the safeguards branch chief with visibility on the status of all inspection activity at the facilities under his jurisdiction. The inspection scheduler also uses this board.

The Inspection Scheduling Assistance Module would not replace the board but would augment it and provide the information required to update the board. Further, the information from this module will be available to the Headquarters personnel charged with the responsibility of assessing the safeguards inspection program and recommending changes to procedures and policies to improve the efficiency and effectiveness of the inspection process and the total inspection program.

The Module Tracking System (MTS), which is no longer in use, was designed to perform similar functions as INSKED. Its demise was caused by (among other things) lack of flexibility, unnecessary reporting capability, a combersome data input requirement and very difficult data correction procedures. The MTS capability is being redesigned and implemented by OIE Headquarters. If the new MTS is successful, it may be incorporated into this ISIS service module.

4.0 NRC OFFICES INVOLVED IN INSKED

4.1 REPORT USERS

This module will be used by:

- The person in each NRC Regional Office who is responsible for the generation and maintenance of a schedule of safeguards inspections of the facilities under its jurisdiction;
- The regional safeguards branch chief who is responsible for the overall safeguards function for the region;
- OIE Headquarters personnel responsible for monitoring and evaluating the total safeguards inspection program.

Both NRC Headquarters and Regional Office personnel identified needs for INSKED reports data on their information work sheets during the requirements analysis; these comments are provided in Section 4.1 of the ISIS Phase I Report.

4.2 INPUT RESPONSIBILITIES

The major part of the data required for this module will be provided by the inspectors and investigators in each region. The MTS section of the 766 forms which are completed by the principal inspector for each inspection trip provide the data required for the inspection module status report. The NRC requirements pertaining to the frequency of inspections will be a source of data for the report of those inspection modules which must be completed within a specified time frame.

4.3 DATA QUALITY

The regional inspector will continue to fill out the 766 and 766S Forms. The regional MIS coordinator will be responsible for data entry and is the interface between the 766 system's edit procedures and the inspector. Once validated, the 766 master files will be processed by ISIS to update the data base constructs vis-a-vis the 766 system.

4.4 ACCESS CONTROL

Headquarters will have access to the data and should control any access to it from outside OIE. Data relating to unannounced inspection schedules are clearly sensitive and may be classified.

5.0 MODULE DATA BASE

Figure 5.1 shows the thirteen (13) constructs which are accessed to produce the INSKED reports.

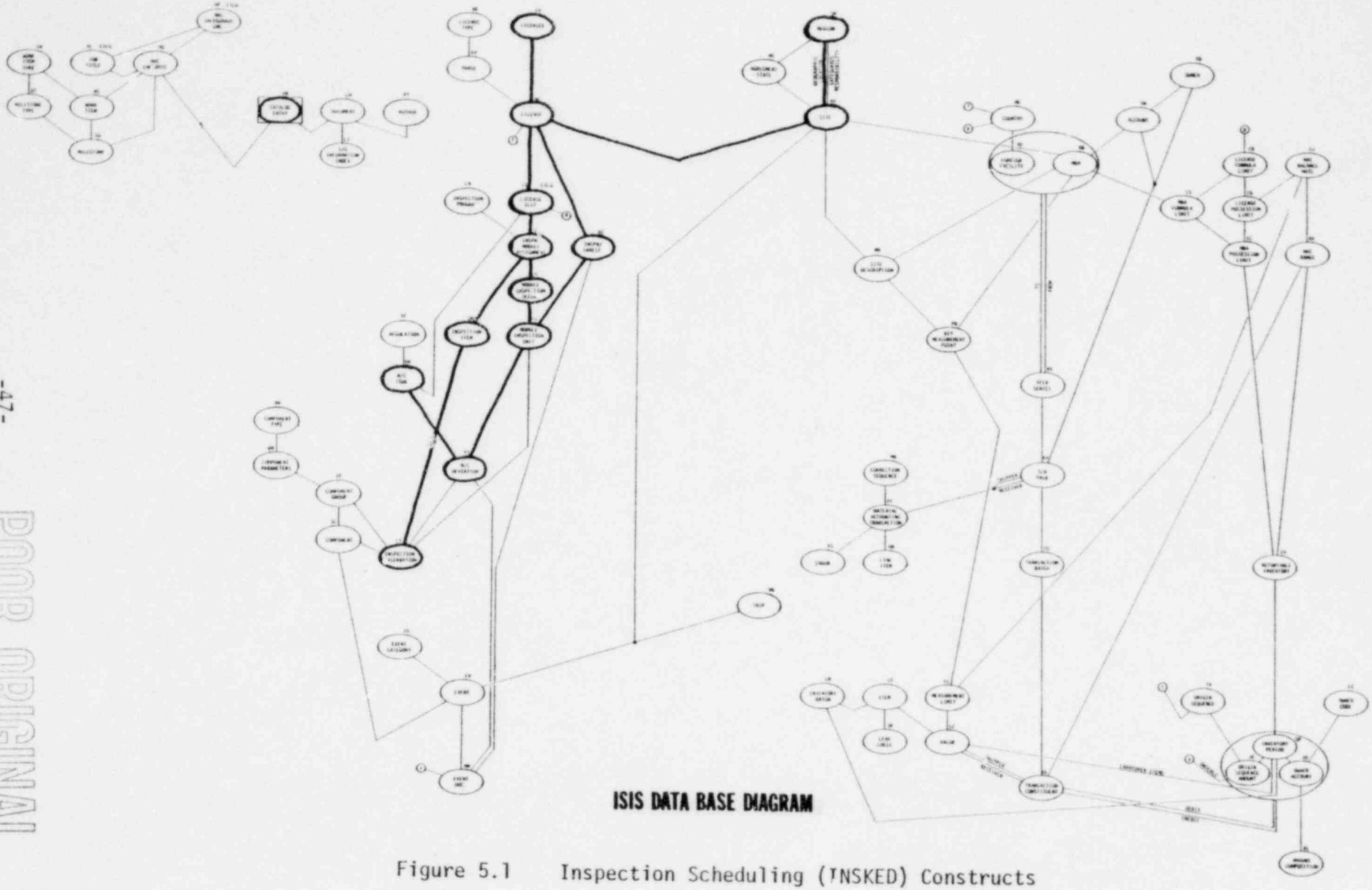


Figure 5.1 Inspection Scheduling (INSKED) Constructs

6.0 OUTPUT REPORTS AND INPUT FORMS

6.1 LIST OF OUTPUT REPORTS

Report Number	Report Title
R8681	Inspection Module Status Report
R5655	Facility Inspection History
R6672	Outstanding Item List

6.2 LIST OF INPUT FORMS

Form Number	Form Title
F4071	Inspection Module Assignment Update Form
F5432	Inspection/Investigation Results Form
F6393	Inspection Program Update Form

TITLE

INSPECTION MODULE STATUS REPORT

PURPOSE

THIS REPORT LISTS STATUS INFORMATION FOR INSPECTION MODULES IDENTIFIED UNDER ANY LICENSES ASSOCIATED WITH EITHER A SPECIFIED SITE OR ALL SITES GEOGRAPHICALLY LOCATED IN A SPECIFIED REGION.

FREQUENCY: MONTHLY FOR HEADQUARTERS I&E
WEEKLY FOR REGIONAL OFFICES
ON DEMAND (300/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 50 PAGES

PARAMETERS

REPORT OPTION	TYPE LENGTH	FIXED TEXT 6	(P1)

POSSIBLE VALUES:
REGION - REPORT FOR ALL SITES IN THE REGION INDICATED BY P2
SITE - REPORT FOR THE SITE INDICATED BY P2

SELECTION VALUE	TYPE LENGTH	FIXED TEXT	(P2)

POSSIBLE VALUES:
ALL - USED TO INDICATE ALL REGIONS
N - A NUMBER RANGING FROM 1 TO 5 INDICATING A PARTICULAR REGION
FACILITY NAME - USED TO INDICATE A PARTICULAR SITE

SORT OPTION	TYPE LENGTH	FIXED TEXT 4	(P3)

POSSIBLE VALUES:
BLANK - INDICATES REPORT ORDER AS SHOWN IN DISPLAY OPTION 1
DATE - ORDER BY REQUIRED COMPLETION DATE, DISPLAY OPTION 2

COMPUTATIONAL RESULTS

MANHOURS REQUIRED TO COMPLETE	TYPE LENGTH	COUNT 4	(C1)

((MANHOURS EXPENDED X 100)/CURRENT % COMPLETE)-MANHOURS EXPENDED

REQUIRED COMPLETION DATE	TYPE LENGTH	DATE 6	(C2)

COMPUTE USING FREQUENCY OF INSPECTION AND DATE OF LAST COMPLETION

INSPECTION WINDOW IN NUMBER OF DAYS	TYPE LENGTH	COUNT 3	(C3)

THE DIFFERENCE IN DAYS BETWEEN THE CURRENT DATE AND THE REQUIRED COMPLETION DATE

```
SELECTION
---------
1) IF P1 EQUAL REGION AND P2 IS BLANK
SELECT
    REGIONS                                                          (SMS    )
 AND VIA
    IS GEOGRAPHIC LOCATION OF SITES                                  (SMMXG  )

    SITES                                                            (MXS    )

2) IF P1 EQUAL REGION AND P2 EQUAL N
SELECT
    REGIONS                                                          (SMS    )
 AND VIA
    IS GEOGRAPHIC LOCATION OF SITES                                  (SMMXG  )

    SITES                                                            (MXS    )
 WHERE
    REGION NUMBER                                                    (SM2838 )
 EQUAL
    SELECTION VALUE                  TYPE LENGTH    FIXED TEXT       (P2     )

3) IF P1 EQUAL SITE
SELECT
    SITES                                                            (MXS    )
 AND VIA
    IS GEOGRAPHICALLY LOCATED IN REGION                              (MXSMG  )
 THE CORRESPONDING
    REGION                                                           (SM     )
 WHERE
    FACILITY NAME                                                    (MX3850 )
 EQUAL
    SELECTION VALUE                  TYPE LENGTH    FIXED TEXT       (P2     )

IN ANY CASE THEN VIA
    CROSS REF LICENSE                                                (MXNH   )
 THE ASSOCIATED
    LICENSES                                                         (NHS    )

THEN VIA
    HAS LICENSE TEXTS                                                (NHZT   )

    LICENSE TEXTS                                                    (ZTS    )

THEN VIA
    HAS INSP MOD ASSIGNMENTS                                         (ZTTF   )

    INSP MOD ASSIGNMENTS                                             (TFS    )

THEN VIA
    HAS MOD INSP OCCURRENCES                                         (TFKG   )
 1) THE LAST COMPLETED
    MOD INSP OCCURRENCE                                              (KG     )
 WHERE
    STATUS                                                           (KG1826 )
 EQUAL CLOSED
AND 2) THE LATEST
```

```
    MOD INSP OCCURRENCE                                          (KG     )

THEN VIA THE LATEST
    HAS MODULE INSP UNITS                                        (KGCG   )
 THE LATEST
    MODULE INSP UNIT                                             (CG     )

THEN FOR THE LATEST
    MOD INSP OCCURRENCE                                          (KG     )
 VIA
    HAS MODULE INSP UNITS                                        (KGCG   )
 THE LATEST
    MODULE INSP UNIT                                             (CG     )
 AND VIA
    APPLIES TO INSP/INVEST                                       (CGWZ   )
 THE CORRESPONDING
    INSP/INVESTIGATION                                           (WZ     )

DISPLAY
-------
DISPLAY
FOR SORT OPTION 1
LEVEL 1
IN ASCENDING ORDER
    REGION NUMBER                                                (SM2838)

    REGION LOCATION                                              (SM2123)

LEVEL 2
IN ASCENDING ORDER
    FACILITY NAME                                                (MX3850)

    FACILITY ADDRESS                                             (MX8349)

    CORPORATE OWNERSHIP                                          (MX9042)

    CORPORATE ADDRESS                                            (MX7139)

    FACILITY TYPE                                                (MX3168)

    SAFEGUARDS GROUP                                             (MX1276)

LEVEL 3
IN ASCENDING ORDER
    LICENSE NUMBER                                               (NH2655)

    DOCKET NUMBER                                                (NH2112)

    LICENSING AUTHORITY INDICATOR                                (NH0473)

LEVEL 4 (NOTE: USE VALUES FROM LATEST OCCURRENCE OF THE KG CONSTRUCT)
IN ASCENDING ORDER
    MODULE ID NUMBER                                             (TF8712)

    OCCURRENCE ID                                                (KG1490)

    NUMBER OF MODULE REQUIRING FOLLOW-UP                         (KG5203)

    STATUS                                                       (KG1826)
```

MODULE INSPECTION START DATE (KG9295)

DATE OF INSPECTION COMPLETION (KG0385)

MANHOURS EXPENDED THUS FAR ON MODULE (KG7183)

% COMPLETE TO DATE (CG5929)

MAN HOURS EXPENDED IN THIS INSPECTION (CG7381)

LINE NUMBER (CG8063)

PRINCIPAL INSPECTOR/INVESTIGATOR NAME (WZ4818)

MANHOURS REQUIRED TO COMPLETE TYPE COUNT (C1)
LENGTH 4

REQUIRED COMPLETION DATE TYPE DATE (C2)
LENGTH 6

INSPECTION WINDOW IN NUMBER OF DAYS TYPE COUNT (C3)
LENGTH 3

DISPLAY
FOR SORT OPTION 2
LEVEL 1

REQUIRED COMPLETION DATE TYPE DATE (C2)
LENGTH 6

LEVEL 2 (NOTE: USE VALUES FROM LATEST OCCURRENCE OF THE KG CONSTRUCT)

REGION NUMBER (SM2838)

REGION LOCATION (SM2123)

FACILITY NAME (MX3850)

FACILITY ADDRESS (MX8349)

CORPORATE OWNERSHIP (MX9042)

CORPORATE ADDRESS (MX7139)

FACILITY TYPE (MX3168)

SAFEGUARDS GROUP (MX1276)

LICENSE NUMBER (NH2655)

DOCKET NUMBER (NH2112)

LICENSING AUTHORITY INDICATOR (NH0473)

MODULE ID NUMBER (TF8712)

OCCURRENCE ID (KG1490)

NUMBER OF MODULE REQUIRING FOLLOW-UP (KG5203)

STATUS			(KG1826)
MODULE INSPECTION START DATE			(KG9295)
DATE OF INSPECTION COMPLETION			(KG0385)
MANHOURS EXPENDED THUS FAR ON MODULE			(KG7183)
% COMPLETE TO DATE			(CG5929)
MAN HOURS EXPENDED IN THIS INSPECTION			(CG7381)
LINE NUMBER			(CG8063)
PRINCIPAL INSPECTOR/INVESTIGATOR NAME			(WZ4818)
MANHOURS REQUIRED TO COMPLETE	TYPE LENGTH	COUNT 4	(C1)
INSPECTION WINDOW IN NUMBER OF DAYS	TYPE LENGTH	COUNT 3	(C3)

TITLE

FACILITY INSPECTION HISTORY

PURPOSE

THIS REPORT LISTS INSPECTIONS WHICH OCCURRED WITHIN A SPECIFIED TIME FRAME UNDER THE PROVISIONS OF ANY LICENSE ASSOCIATED WITH EITHER A SPECIFIED SITE OR A SPECIFIED LICENSEE, OR ALL SITES GEOGRAPHICALLY LOCATED IN A SPECIFIED REGION.

FREQUENCY: AS REQUIRED

PARAMETERS

REPORT OPTION	TYPE LENGTH	FIXED TEXT 6	(P1)

POSSIBLE VALUES:
REGION - REPORT FOR ALL SITES IN THE REGION INDICATED BY P2
SITE - REPORT FOR THE SITE INDICATED BY P2
LICENSEE - REPORT FOR THE LICENSEE INDICATED BY P2

SELECTION VALUE	TYPE LENGTH	FIXED TEXT	(P2)

POSSIBLE VALUES:
BLANK - USED TO INDICATE ALL REGIONS
N - A NUMBER RANGING FROM 1 TO 5 INDICATING A PARTICULAR REGION
FACILITY NAME - USED TO INDICATE A PARTICULAR SITE.
LICENSEE ID - USED TO INDICATE A PARTICULAR LICENSEE

REPORT START DATE	TYPE LENGTH	DATE 6	(P3)
REPORT END DATE	TYPE LENGTH	DATE 6	(P4)

COMPUTATIONAL RESULTS

NUMBER OF NON-COMPLIANCES	TYPE LENGTH	COUNT 4	(C1)

SELECTION
---

1) IF P1 EQUAL REGION AND P2 IS BLANK
SELECT
REGIONS (SMS)
AND VIA
IS GEOGRAPHIC LOCATION OF SITES (SMMXG)

SITES (MXS)

2) IF P1 EQUAL REGION AND P2 EQUAL N
SELECT
REGIONS (SMS)
AND VIA
IS GEOGRAPHIC LOCATION OF SITES (SMMXG)

SITES (MXS)

```
 WHERE
    REGION NUMBER                                                    (SM2838)
 EQUAL
    SELECTION VALUE                  TYPE        FIXED TEXT          (P2     )
                                     LENGTH

3) IF P1 EQUAL SITE
SELECT
    SITES                                                            (MXS    )
 AND VIA
    IS GEOGRAPHICALLY LOCATED IN REGION                              (MXSMG  )
 THE CORRESPONDING
    REGION                                                           (SM     )
 WHERE
    FACILITY NAME                                                    (MX3850 )
 EQUAL
    SELECTION VALUE                  TYPE        FIXED TEXT          (P2     )
                                     LENGTH

IN ANY CASE THEN VIA
    CROSS REF LICENSE                                                (MXNH   )
 THE ASSOCIATED
    LICENSES                                                         (NHS    )

4) IF P1 EQUAL LICENSEE
SELECT
    LICENSEE                                                         (FV     )
 WHERE
    LICENSEE ID                                                      (FV1808 )
 EQUAL
    SELECTION VALUE                  TYPE        FIXED TEXT          (P2     )
                                     LENGTH

 THEN VIA
    HAS LICENSES                                                     (FVNH   )

    LICENSES                                                         (NHS    )

THEN FOR EACH SELECTED LICENSEE:
    HAS INSPCT/INVESTIGATIONS                                        (NHWZ   )

    INSPECTIONS                                                      (WXS    )
 WHERE EITHER
    FROM DATE (INQ/INVEST/INSP)                                      (WZ1738 )
 OR
    TO DATE (INQ/INVEST/INSP)                                        (WZ3234 )
 IS BOTH
1) GREATER THAN OR EQUAL
    REPORT START DATE                TYPE        DATE                (P3     )
                                     LENGTH      6

 AND
2) LESS THAN OR EQUAL
    REPORT END DATE                  TYPE        DATE                (P4     )
                                     LENGTH      6

THEN VIA
    APPLIES TO MOD INSP UNIT                                         (WZCG   )

    MODULE INSP UNITS                                                (CGS    )
 AND VIA
```

```
    IS A MEMBER OF MOD INSP OCCURRENCE                          (CGKG   )
 THE CORRESPONDING
    MOD INSP OCCURRENCE                                         (KG     )
 AND VIA
    BELONGS TO INSP MOD ASSIGNMENT                              (KGTF   )
 THE CORRESPONDING
    INSP MOD ASSIGNMENT                                         (TF     )

ALSO IF
    HAS N/C DEVIATIONS                                          (CGVX   )

    N/C DEVIATION                                               (VX     )
 AND VIA
    IS DEFINED BY N/C CODE                                      (VXBN   )
 THE CORRESPONDING
    N/C CODE                                                    (BV     )

DISPLAY
-------
IF P1 EQUAL REGION OR SITE
LEVEL 1
IN ASCENDING ORDER
    REGION NUMBER                                               (SM2838)

    REGION LOCATION                                             (SM2123)

LEVEL 2
IN ASCENDING ORDER
    FACILITY NAME                                               (MX3850)

    FACILITY ADDRESS                                            (MX8349)

    CORPORATE OWNERSHIP                                         (MX9042)

    CORPORATE ADDRESS                                           (MX7139)

    FACILITY TYPE                                               (MX3168)

    SAFEGUARDS GROUP                                            (MX1276)

ELSE IF P1 EQUAL LICENSEE
LEVEL 1
    LICENSEE ID                                                 (FV1808)

    CORPORATE NAME OF LICENSEE                                  (FV0396)

AND IN EITHER CASE
LEVEL 3
    DOCKET NUMBER                                               (NH2112)

    LICENSE NUMBER                                              (NH2655)

    LICENSING AUTHORITY INDICATOR                               (NH0473)

    AMENDMENT REFERENCE                                         (NH3366)

    AMENDMENT DATE                                              (NH7700)

    PRIORITY/CATEGORY                                           (NH0253)
```

```
    SAFEGUARDS GROUP NUMBER                                          (NH3839)

LEVEL 4
IN ASCENDING ORDER
    FACILITY NAME (FROM 766)                                         (WZ6809)

    LICENSEE/VENDOR (FROM 766)                                       (WZ2849)

    FROM DATE (INQ/INVEST/INSP)                                      (WZ1738)

    TO DATE (INQ/INVEST/INSP)                                        (WZ3234)

    REPORT NUMBER                                                    (WZ7964)

    INSPECTOR/INVESTIGATOR NAME                                      (WZ3630)

    REVIEWER'S NAME                                                  (WZ6358)

    PRINCIPAL INSPECTOR/INVESTIGATOR NAME                            (WZ4818)

    REGION CONDUCTING ACTIVITY                                       (WZ8426)

    DATE 766 ENTERED INTO COMPUTER FILE                              (WZ6721)

    DCS REFERENCE TO TEXTUAL REPORT                                  (WZ6094)

AND ALL DATA ELEMENTS FROM THE APPROPRIATE SUBCONSTRUCTS
    NUMBER OF NON-COMPLIANCES                TYPE     COUNT          (CI    )
                                             LENGTH   4

    NOTE: THIS VALUE IS A COUNT OF THE LEVEL 6 ENTRIES
LEVEL 5
IN ASCENDING ORDER
    MODULE ID NUMBER                                                 (TF8712)

LEVEL 6
    CODE ID                                                          (BN3909)

    TYPE OF FINDING                                                  (VX6732)

    NC DEVIATION CODE SUFFIX                                         (VX9427)

    CAUSE CODE                                                       (VX0924)

    PROCEDURE CODE                                                   (VX1710)

    SEVERITY CODE                                                    (VX1820)

    FUNCTIONAL AREA CODE                                             (VX2457)

    SPECIFIC GUIDE OR STANDARD                                       (VX3828)

    HOW ITEM IDENTIFIED                                              (VX2398)

    CONSEQUENCE CODE                                                 (VX8701)

    EXEMPT INFORMATION                                               (VX8151)
```

ADDITIONAL UNITS	(VX3102)
TEXT	(VX7601)
CORRECTIVE ACTION STATUS	(VX2150)

TITLE

OUTSTANDING ITEM LIST

PURPOSE

THIS REPORT LISTS THE INSPECTION ITEMS STILL TO BE INSPECTED FOR INSPECTION MODULE IN AN OPEN STATUS. IF PARTICULAR SITES ARE REQUESTED THE REPORT WILL APPLY TO THOSE INSPECTION MODULES IDENTIFIED THROUGH ANY LICENSE ASSOCIATED WITH THE SPECIFIED SITES.

FREQUENCY: AS REQUIRED (300/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

DESIRED FACILITY	TYPE LENGTH	FIXED TEXT	(P1)

SELECTION

SELECT			
SITES			(MXS)
WHERE			
FACILITY NAME			(MX3850)
EQUAL			
DESIRED FACILITY	TYPE LENGTH	FIXED TEXT	(P1)
THEN VIA			
CROSS REF LICENSE			(MXNH)
THE ASSOCIATED			
LICENSES			(NHS)
THEN VIA			
HAS LICENSE TEXTS			(NHZT)
LICENSE TEXT			(ZT)
THEN AS A PAIR VIA			
HAS INSP MOD ASSIGNMENTS			(ZTTF)
INSP MOD ASSIGNMENT			(TF)
AND VIA THE LAST			
HAS MOD INSP OCCURRENCES			(TFKG)
MOD INSP OCCURRENCE			(KG)
ONLY IF			
STATUS			(KG1826)
EQUAL OPEN			
THEN 1) VIA			
HAS INSPECTION ITEMS			(TFDN)
INSPECTION ITEMS			(DNS)

```
 WHERE VIA THE LAST
    HAS INSP OBSERVATIONS                                    (DNLT   )

    OBSERVATION DATE                                         (LT3227)
 IS LESS THAN
    MODULE INSPECTION START DATE                             (KG9295)

AND 2) VIA
    HAS MODULE INSP UNITS                                    (KGCG   )

    MODULE INSP UNITS                                        (CGS    )
 AND VIA
    APPLIES TO INSP/INVEST                                   (CGWZ   )
 THE CORRESPONDING
    INSP/INVESTIGATION                                       (WZ     )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    FACILITY NAME                                            (MX3850)

LEVEL 2
IN ASCENDING ORDER
    MODULE ID NUMBER                                         (TF8712)

LEVEL 3
IN ASCENDING ORDER
    FROM DATE (INQ/INVEST/INSP)                              (WZ1738)

    TO DATE (INQ/INVEST/INSP)                                (WZ3234)

    ACTIVITY CODE                                            (WZ8305)

    REPORT NUMBER                                            (WZ7964)

LEVEL 3
    INSPECTION ITEM IDENTIFICATION                           (DN8547)
```

TITLE

INSPECTION MODULE ASSIGNMENT UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE INSPECTION MODULE ASSIGNMENT CONSTRUCT

FREQUENCY: AS REQUIRED

LEVEL 1

REFERENCE
LICENSE (NH)

KEYED BY
LICENSE NUMBER (NH2655)

OR
DOCKET NUMBER (NH2112)

LEVEL 2

REFERENCE
LICENSE TEXT (ZT)

KEYED BY
LICENSE TEXT SUBSET IDENTIFIER (ZT6798)

IDENTITY RELATIONSHIP

IS OWNED BY LICENSE (ZTNH)

LEVEL 3

UPDATE
INSP MOD ASSIGNMENT (TF)

KEYED BY
MODULE ID NUMBER (TF8712)

IDENTITY RELATIONSHIP
IS A MEMBER OF LICENSE TEXT (TFZT)

DATA RELATIONSHIP
IS A MEMBER OF INSPECTION PROGRAM (TFLN)

KEYED BY
MANUAL CHAPTER NUMBER (LN0187)

OTHER DATA
FREQUENCY OF REQUIRED INSPECTIONS (TF8195)

LEVEL 4

UPDATE
INSPECTION ITEM (DN)

KEYED BY
INSPECTION ITEM IDENTIFICATION (DN8547)

IDENTITY RELATIONSHIP
IS A MEMBER OF INSP MOD ASSIGNMENT (DNTF)

OTHER DATA
INSPECTION ITEM DESCRIPTION (DN3201)

INSPECTION ITEM PERFORMANCE CRITERIA (DN2794)

DATE EFFECTIVE (DN1342)

DATE TERMINATED (DN4213)

ITEM SOURCE (DN7920)

TITLE

INSPECTION/INVESTIGATION RESULTS FORM

PURPOSE

THIS FORM IS USED TO INPUT BASIC STATISTICAL DATA CONCERNING AN INSPECTION, INVESTIGATION OR INQUIRY. IF AN INSPECTION OBSERVATION APPLIES TO A COMPONENT, AND THAT COMPONENT IS NOT ALREADY IN THE SYSTEM, THIS FORM UPDATES THE COMPONENT DATA.

FREQUENCY: AS REQUIRED

LEVEL 1

REFERENCE
LICENSE (NH)

KEYED BY EITHER
LICENSE NUMBER (NH2655)

OR
DOCKET NUMBER (NH2112)

LEVEL 2

UPDATE
INSP/INVESTIGATION (WZ)

IDENTITY RELATIONSHIP
IS REFERENCED TO LICENSE (WZNH)

OTHER IDENTITY DATA
REPORT NUMBER (WZ7964)

OTHER DATA
FACILITY NAME (FROM 766) (WZ6809)

LICENSEE/VENDOR (FROM 766) (WZ2849)

REPORT NUMBER (WZ7964)

INSPECTOR/INVESTIGATOR NAME (WZ3630)

REVIEWER'S NAME (WZ6358)

PRINCIPAL INSPECTOR/INVESTIGATOR NAME (WZ4818)

FROM DATE (INQ/INVEST/INSP) (WZ1738)

TO DATE (INQ/INVEST/INSP) (WZ3234)

REGION CONDUCTING ACTIVITY (WZ8426)

ACTIVITY CODE (WZ8305)

DATE 766 ENTERED INTO COMPUTER FILE (WZ6721)

DCS REFERENCE TO TEXTUAL REPORT (WZ6094)

AND
FOR THE SUBCONSTRUCT
UPDATE
INSPECTION (WX)

THE DATA ELEMENTS
ANNOUNCED/UNANNOUNCED CODE-ROUTINE (WX6369)

INSPECTION NOTIFICATION CODE (WX8129)

INSPECTION FINDINGS (WX7029)

N/C ITEMS IN LICENSEE LETTER (ROUTINE) (WX8569)

DEVIATIONS IN LICENSEE LETTER (ROUTINE (WX0209)

OF LICENSEE ID ITEMS DURING ROUT INSP (WX2640)

OF LICENSEE EVENTS ON SITE DURING INSP (WX6589)

DATE OF LETTER/591 ISSUED TO LICENSEE (WX1936)

DATE REPORT SENT TO HQ FOR ENFOR ACTION (WX1309)

HQ ACTION CODE ON REGIONS REQUEST (WX3465)

DATE HQS ENFORCEMENT NOTIFICATION ISSUED (WX4620)

CIVIL PENALTY ISSUED BY HQS (WX1672)

FOR THE SUBCONSTRUCT
UPDATE
INVESTIGATION (FZ)

THE DATA ELEMENTS
ANNOUNCED/UNANNOUNCED CODE-INVESTIGATION (FZ9460)

INVESTIGATION NOTIFICATION CODE (FZ1353)

INVESTIGATION FINDINGS (FZ5357)

OF N/C ITEM IN LICENSEE LETTER (INVEST (FZ6864)

OF DEV IN LICENSEE LETTER (INVEST) (FZ8492)

OF LICENSEE IDENTIFIED DURING INVEST (FZ6479)

OF LICENSEE EVENTS (FZ0715)

DATE OF LETTER/591 ISSUED TO LICENSEE (FZ8371)

DATE REPORT SENT TO HQ FOR ENFOR ACTION (FZ7062)

SUBJECT OF INVESTIGATION CODE (FZ3861)

HQS ACTION CODE ON REGIONS REQUEST (FZ5786)

DATE HQS ENFORCEMENT NOTIFICATION ISSUED (FZ8734)

CIVIL PENALTY ISSUED BY HQS AFTER INVEST (FZ3898)

FOR THE SUBCONSTRUCT
UPDATE
INQUIRY (LV)

THE DATA ELEMENTS
ADDITIONAL ACTION REQUIRED (YES/NO) (LV2035)

LEVEL 3

UPDATE
MODULE INSP UNIT (CG)

IDENTITY RELATIONSHIP
APPLIES TO INSP/INVEST (CGWZ)

IDENTITY RELATIONSHIP
IS A MEMBER OF MOD INSP OCCURRENCE (CGKG)

UPDATE
MOD INSP OCCURRENCE (KG)

KEYED BY
OCCURRENCE ID (KG1490)

WHICH
BELONGS TO INSP MOD ASSIGNMENT (KGTF)

KEYED BY
MODULE ID NUMBER (TF8712)

WHICH
IS A MEMBER OF LICENSE TEXT (TFZT)

WHICH
IS OWNED BY LICENSE (ZTNH)

KEYED BY EITHER
LICENSE NUMBER (NH2655)

OR
DOCKET NUMBER (NH2112)

OTHER DATA
NUMBER OF MODULE REQUIRING FOLLOW-UP (KG5203)

STATUS (KG1826)

MODULE INSPECTION START DATE (KG9295)

DATE OF INSPECTION COMPLETION (KG0385)

% COMPLETE TO DATE (CG5929)

MAN HOURS EXPENDED IN THIS INSPECTION (CG7381)

LINE NUMBER (CG8063)

LEVEL 4

UPDATE
N/C DEVIATION (VX)

IDENTITY RELATIONSHIP
APPLY TO MODULE INSP UNIT (VXCG)

IDENTITY RELATIONSHIP
IS DEFINED BY N/C CODE (VXBN)

KEYED BY
CODE ID (BN3909)

OTHER DATA
TYPE OF FINDING (VX6732)

NC DEVIATION CODE SUFFIX (VX9427)

CAUSE CODE (VX0924)

PROCEDURE CODE (VX1710)

SEVERITY CODE (VX1820)

FUNCTIONAL AREA CODE (VX2457)

SPECIFIC GUIDE OR STANDARD (VX3828)

HOW ITEM IDENTIFIED (VX2398)

CONSEQUENCE CODE (VX8701)

EXEMPT INFORMATION (VX8151)

ADDTIONAL UNITS (VX3102)

TEXT (VX7601)

CORRECTIVE ACTION STATUS (VX2150)

LEVEL 4

UPDATE
INSP OBSERVATION (LT)

IDENTITY RELATIONSHIP
IS A MEMBER OF MODULE INSP UNIT (LTCG)

IDENTITY RELATIONSHIP
IS A MEMBER OF INSPECTION ITEM (LTDN)

```
KEYED BY
    INSPECTION ITEM IDENTIFICATION                          (DN8547)

DATA RELATIONSHIP
    IS A MEMBER OF N/C DEVIATION                            (LTVX  )

WHICH
    IS DEFINED BY N/C CODE                                  (VXBN  )

KEYED BY
    CODE ID                                                 (BN3909)

DATA RELATIONSHIP
IF
    MAY BE A MEMBER OF COMPONENT GROUP                      (LTZP  )

KEY BY
    IDENTITY CODE OF COMPONENT GROUP                        (ZP3139)

ELSE IF
    MAY BE A MEMBER OF COMPONENT                            (LTSC  )

KEY BY
    TYPE OF COMPONENT                                       (SC2919)

AND
   SERIAL NUMBER

WHICH
    BELONG TO COMPONENT GROUPS                              (SCZP  )

KEYED BY
    IDENTITY CODE OF COMPONENT GROUP                        (ZP3139)

WHICH
    HAS COMPONENT PARAM SETS                                (ZPWN  )

KEYED BY
    BRAND                                                   (WN1628)

    MODEL                                                   (WN7216)

OTHER DATA
    OBSERVATION DATE                                        (LT3227)

    OBSERVATION TEXT                                        (LT7513)

    OBSERVATION FINDING                                     (LT4587)

    INFORMATION FOR SUBSEQUENT INSPECTION                   (LT2684)

AND IF
    COMPONENT                                               (SC    )

    COMPONENT ID                                            (SC9999)

    COMPONENT S/G APPLICATION                               (ZP2871)

AND IF
```

EQUIPMENT COMPONENT (KP)

SERIAL NUMBER (KP6413)

DATE OF INSTALLATION (KP9130)

DATE OF LAST MAINTENANCE (KP6710)

DATE OF LAST CALIBRATION (KP3795)

DATE OF LAST FAILURE (KP4510)

COMPONENT OWNER (KP6490)

ICC IDENTIFICATION (KP0044)

ELSE IF
MAT ACCTG COMPONENT (TQ)

SERIAL NUMBER (TQ3377)

MEASUREMENT STANDARD (TQ3388)

FREQUENCY OF CALIBRATION (TQ3399)

SIZE OF SAMPLE NECESSARY (TQ3443)

DATE OF INSTALLATION (TQ1551)

AND IF
COMPONENT GROUP (ZP)

COMPONENT S/G APPLICATION (ZP2871)

TITLE

INSPECTION PROGRAM UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT THE INFORMATION NECESSARY TO MAINTAIN INSPECTION PROGRAM DATA IN ISIS

FREQUENCY: AS REQUIRED

LEVEL 1

UPDATE
INSPECTION PROGRAM (LN)
KEYED BY
MANUAL CHAPTER NUMBER (LN0187)

OTHER DATA
INSPECTION PROGRAM TITLE (LN6523)

COMPARABLE EVENTS HISTORY (CEHIST)

1.0 ABSTRACT

CEHIST will enable an analyst to search for common attributes among the total collection of reports, letters and memos generated as a result of safeguards-related problems, incidents, or events. Included in this collection will be Licensee Event Reports (LERs), Preliminary Notifications (PNs), Evaluation Memos, Inspection Reports, Investigation Reports, and Incident Reports. The desired information will be extracted in successive iterations of reports which converge on any particular subject of investigation. Concurrent with this activity will be the development of a list of pointers to the full text of reports, letters, and memos pertinent to the subject. Retrieval of these documents will be accomplished via an interface to a planned microfiche document retrieval system (DCS).

2.0 PURPOSE OF CEHIST

2.1 FUNCTIONS AND CAPABILITIES

CEHIST will store and maintain preselected attribute data from the PNs, Evaluation Memos, Inspection Reports, Investigation Reports and Incident Reports so that retrievals can be made based on the values of the attributes. Retrievals will also be made from the established LER and NRC 766 and 766S files which are already stored in a format that facilitates searches based on attribute values.

CEHIST will also interface with a planned document retrieval system (DCS) to access full texts of any of the documents pertinent to an analyst's investigation.

The intent of CEHIST is to facilitate searches through safeguards-related reports, letters and memos for similar or related problems, abnormal occurrences, incidents, etc. This capability is required by analysts charged with investigating chronic or potential safeguards problems or weakspots and recommending changes in hardware, procedures, or standards to remedy the problem. Trend data is also obtainable through the CEHIST searching capability. Additional batch reports can be generated on an as-needed basis for historical or statistical studies of facilities, events or safeguards items or procedures.

One of the uses of CEHIST would be to provide special data to inspectors preparing for an inspection. A query requesting historical non-compliance data for the facility to be inspected will help to prioritize the emphasis to be given to certain safeguards items during the inspection. In a more thorough preparation, the inspector may wish to cross-check given noncompliance items with experience in other similar facilities throughout the country. CEHIST will assist him in this analytic activity.

Investigators will go through the same process in their investigation of an incident or a problem. In addition to providing information regarding similar incidents or problems, CEHIST will point to the principal investigator. Consultations with investigators who have worked on similar cases are ar invaluable aid in resolving safeguards problems in a consistent manner.

Personnel responsible for the overall safeguards program in the various offices of NRC will utilize CEHIST to assist in searching for and gathering as much historical information as possible which bears on a policy, procedure or item related to safeguards. Standards development and modification functions require as much historical information as possible in order to ensure that standards are realistic and modifications are truly warranted.

The development of contingency plans must be tempered by what has taken place historically in order to place the proper emphases on the types of incidents that actually do occur. CEHIST will provide insight into actual and potential occurrences in the country. This information would be integrated to aid in the formulation of a realistic set of input parameters describing threat scenarios that can be input to the effectiveness evaluation models.

CEHIST reports can also highlight those safeguards components or procedures that present chronic problems. After regulations, standards and/or procedures are modified to eliminate these problems, the same kinds of CEHIST reports can be used to measure the effect of the modification.

CEHIST will also be used in the licensing support functions. License change requests must be assessed partly by the historical record of that portion of the license for which the request is made. This also applies to requests for exemptions from specific regulations. CEHIST will also point to specific areas that would need careful scrutinizing during the license application approval process.

Finally, the iterative process of improving the effectiveness of safeguards inspections suggests de-emphasizing the inspection items which never show noncompliance in order to provide more time to inspect the items that require more emphasis according to the noncompliance historical data. By being aware of the frequency of occurrence of various incidents and events through CEHIST, steps can be devised to minimize their occurrence.

2.2 CURRENT OR PROJECTED INFORMATION NEEDS

CEHIST meets current NRC needs identified by the requirements analysis performed in the ISIS Phase I. These needs have been discussed above in Section 2.1. CEHIST also meets some projected needs, for example, those of the threat assessment analysts who can use it to determine if trends are developing in types of abnormal events in order to develop new threat models or contingency plan stimuli.

3.0 RELATION OF CEHIST TO EXISTING NRC SYSTEMS

Currently, the capabilities of the total CEHIST Service Module do not exist. In a limited sense the MARK IV Data Management System does provide the capabilities to design reports and extract information from the structured LER and NRC 766 files, but not from the others.

The LER file maintained by the Office of Management Information and Program Control is highly formatted and the information is extractable using the report-defining capabilities of MARK IV. The LERs can be categorized, sorted and/or extracted by any number of predefined attributes.

Like the LER file, the 766 and 766S files are highly formatted and specific inspection information can be extracted in any number of ways by using the standard reporting capability already existing or by designing a new report through the capabilities of MARK IV.

The other files are not so structured. A sizable staff will be required to extract the key attributes from the text of Preliminary Notifications, Investigation Reports, Evaluation Reports and other reports that are evaluative but primarily textual in nature. They will be used in the analysis and evaluation of safeguards procedures and equipment.

4.0 NRC OFFICES INVOLVED IN CEHIST

4.1 REPORT USERS

CEHIST will be used by the inspectors in the regions in preparation for an inspection trip. The reports will show them where some safeguards procedures or items require special attention during the inspection. The need for this type of data was documented on the Information Worksheets as described in Section 4.1 of the ISIS Phase I Report.

CEHIST will also be used in the NRC OSD, ONMSS, ONRR (Reactors), RES (Research) and OIE Headquarters in developing answers to congressional inquiries or analyzing trends and determining requirements for new/modified regulations/regulatory guides that cover identified safeguards problem areas.

4.2 INPUT RESPONSIBILITIES

The input for CEHIST will come from many sources. There are systems in existence that are performing parts of the functions defined in CEHIST. The LER file exists today and it is highly formatted for selective data retrieval. LERs are generated by the licensees. It is projected that submission of safeguards-related LERs will be made more timely.

The NRC 766 and 766S forms capture much of the information from inspections and investigations, but the textual part of an investigator's report is unstructured and no standards exist for its contents or format. Key attributes must be extracted from these reports.

Preliminary Notifications (PN) are partially structured. The forms must be modified to extract more of the data that normally enters the textual portion of the report. PNs and 766s are generated in the regions and therefore would require added regional support.

4.3 DATA QUALITY

The licensees are responsible for the accuracy of the LER data. The Office of Mangement Information and Program Control maintains the LER files and is responsible for the generation of the reports from them.

Personnel in the regions are responsible for the accuracy of the 766 and 766S forms, inspection and investigation reports, PNs and Evaluation Reports.

4.4 ACCESS CONTROL

Since much of the data in the constructs supporting this module are sensitive, strict access controls will be established on the use of the module. Access from without NRC will be controlled by OMPA and OIE.

5.0 MODULE DATA BASE

Figure 5.1 shows the twenty-two (22) constructs which are accessed to produce the CEHIST reports. The CEHIST constructs allow information to be stored in the ISIS data base to categorize, record and document abnormal events involving safeguarding nuclear facilities or material shipments.

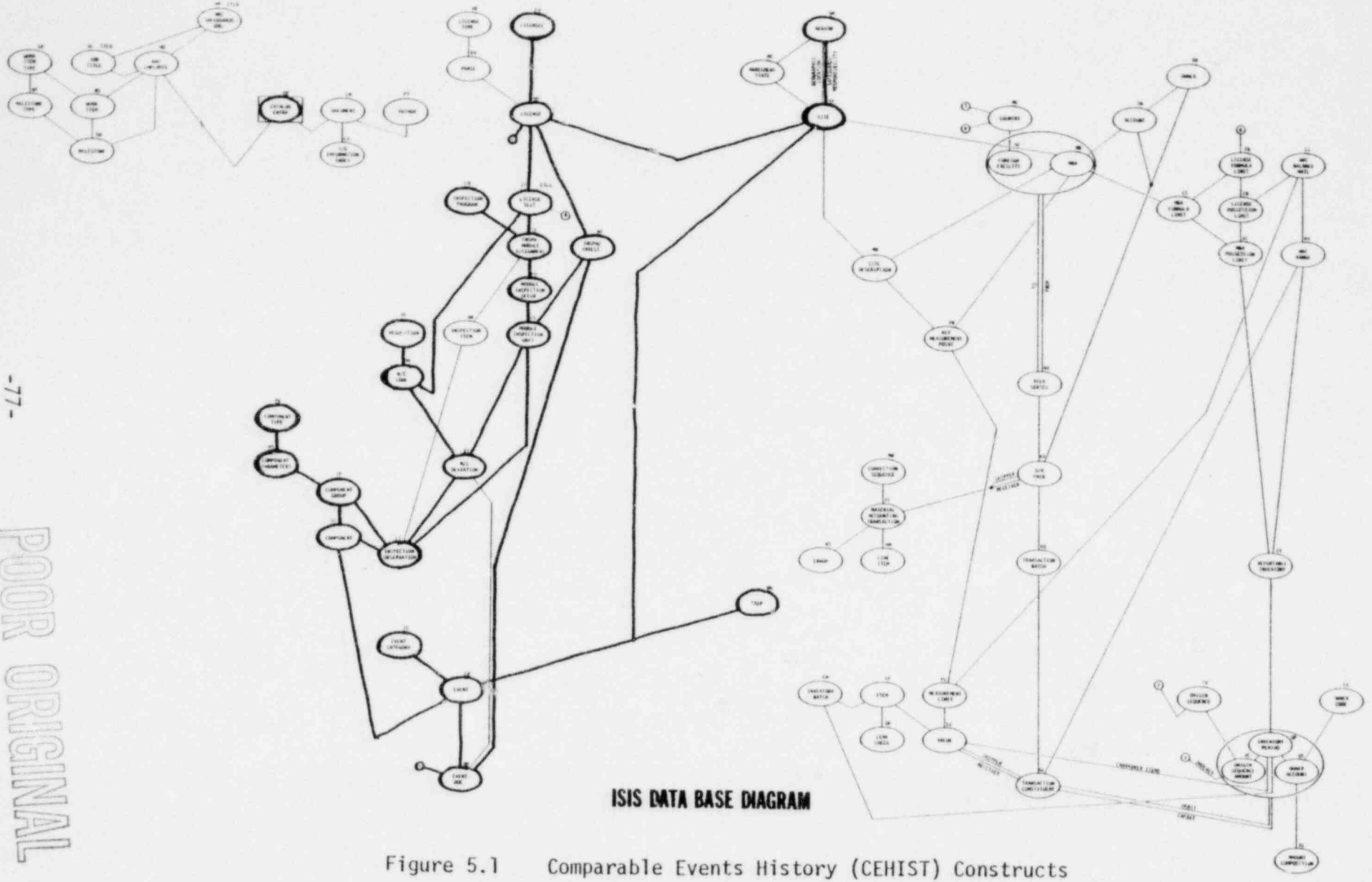


Figure 5.1 Comparable Events History (CEHIST) Constructs

6.0 OUTPUT REPORTS AND INPUT FORMS

6.1 LIST OF OUTPUT REPORTS

Report Number	Report Title
R5541	Non-Compliance History By License
R5912	Non-Compliance History By Inspection Module
R3239	Non-Compliance History By Component Type
R4442	List of PNs By License
R0749	List of LERs By License
R6550	List of LERs By Event Type
R4251	List of Investigations By License
R0462	List of Investigations By Subject
R1489	List of Active Events
R1734	Event History By Site
R1135	List of Event Documentation By Event
R2403	List of N/C Codes
R6197	List of Non-Compliance By Regulation

6.2 LIST OF INPUT FORMS

Form Number	Form Title
F8119	Event Documentation Update Form
F1114	Event Category Form
F5740	Event Update Form
F1116	Non-Compliance Codes
F1033	Generic Hardware Specification

TITLE

NON-COMPLIANCE HISTORY BY LICENSE

PURPOSE

THIS REPORT LISTS NON-COMPLIANCES IDENTIFIED DURING INSPECTIONS WHICH OCCURRED WITHIN A SPECIFIED TIME-FRAME AND ASSOCIATED WITH A PARTICULAR LICENSE.

FREQUENCY: AS REQUIRED (75/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

REPORT OPTION	TYPE	FIXED TEXT	(P1)
	LENGTH	8	

POSSIBLE VALUES:
'LICENSE' - REPORT FOR A PARTICULAR LICENSE
'LICENSEE' - REPORT FOR ALL LICENSES HELD BY A PARTICULAR LICENSEE
'REGION' - REPORT FOR ALL LICENSES IN THIS REGION

SELECTION VALUE	TYPE	FIXED TEXT	(P2)
	LENGTH	13	

POSSIBLE VALUES:
LICENSE NUMBER OR LICENSEE ID CODE OR S/G RESPONSIBLE REGION ID, DEPENDING ON P1

REPORT START DATE	TYPE	DATE	(P3)
	LENGTH	6	
REPORT END DATE	TYPE	DATE	(P4)
	LENGTH	6	

SELECTION

IF			
REPORT OPTION	TYPE	FIXED TEXT	(P1)
	LENGTH	8	
EQUAL 'LICENSEE'			
SELECT			
LICENSEE			(FV)
WHERE			
LICENSEE ID			(FV1808)
EQUAL			
SELECTION VALUE	TYPE	FIXED TEXT	(P2)
	LENGTH	13	
THEN VIA			
HAS LICENSES			(FVNH)
LICENSES			(NHS)
IF			
REPORT OPTION	TYPE	FIXED TEXT	(P1)
	LENGTH	8	

```
 EQUAL 'LICENSE'
SELECT
    LICENSE                                                    (NH      )
 AND VIA
    APPLIES TO LICENSEE                                        (NHFV    )
 THE CORRESPONDING
    LICENSEE                                                   (FV      )
 WHERE
    LICENSE NUMBER                                             (NH2655)
 EQUAL
    SELECTION VALUE                 TYPE      FIXED TEXT       (P2      )
                                    LENGTH    13

IF
    REPORT OPTION                   TYPE      FIXED TEXT       (P1      )
                                    LENGTH    8
 EQUAL 'REGION'
SELECT
    REGION                                                     (SM      )
 WHERE
    REGION NUMBER                                              (SM2838)
 EQUAL
    SELECTION VALUE                 TYPE      FIXED TEXT       (P2      )
                                    LENGTH    13
 THEN VIA
    HAS S/G RESPONSIBILITY FOR SITES                           (SMMXS   )

    SITES                                                      (MXS     )
 THEN VIA
    CROSS REF LICENSE                                          (MXNH    )

    LICENSES                                                   (NHS     )
 THEN VIA
    APPLIES TO LICENSEE                                        (NHFV    )

    LICENSEE                                                   (FV      )

IN ANY CASE VIA
    HAS INSPCT/INVESTIGATIONS                                  (NHWZ    )

    INSP/INVESTIGATIONS                                        (WZS     )
 WHERE EITHER
    FROM DATE (INQ/INVEST/INSP)                                (WZ1738)
 OR
    TO DATE (INQ/INVEST/INSP)                                  (WZ3234)
 IS BOTH
1) GREATER THAN OR EQUAL TO
    REPORT START DATE               TYPE      DATE             (P3      )
                                    LENGTH    6
 AND
2) LESS THAN OR EQUAL TO
    REPORT END DATE                 TYPE      DATE             (P4      )
                                    LENGTH    6

THEN VIA
    APPLIES TO MOD INSP UNIT                                   (WZCG    )

    MODULE INSP UNITS                                          (CGS     )
```

```
THEN VIA
    HAS N/C DEVIATIONS                                          (CGVX   )

    N/C DEVIATIONS                                              (VXS    )

THEN 1) VIA
    IS DEFINED BY N/C CODE                                      (VXBN   )
 THE CORRESPONDING
    N/C CODE                                                    (BN     )

2) VIA
    HAS INSP OBSERVATIONS                                       (VXLT   )
 THE LAST
    INSP OBSERVATION                                            (LT     )

THEN, IF
    MAY BE A MEMBER OF COMPONENT                                (LTSC   )
 SELECT THE CORRESPONDING
    COMPONENT                                                   (SC     )

THEN VIA
    BELONG TO COMPONENT GROUPS                                  (SCZP   )

    COMPONENT GROUP                                             (ZP     )

ELSE IF
    MAY BE A MEMBER OF COMPONENT GROUP                          (LTZP   )
 SELECT THE CORRESPONDING
    COMPONENT GROUP                                             (ZP     )

THEN IN ANY CASE VIA
    HAS COMPONENT PARAM SETS                                    (ZPWN   )

    COMPONENT PARAM SET                                         (WN     )

THEN VIA
    APPLIES TO COMPONENT TYPE                                   (WNXW   )

    COMPONENT TYPE                                              (XW     )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    REGION NUMBER                                               (SM2838)

    REGION LOCATION                                             (SM2123)

LEVEL 2
IN ASCENDING ORDER
    LICENSEE ID                                                 (FV1808)

    CORPORATE NAME OF LICENSEE                                  (FV0396)

LEVEL 3
IN ASCENDING ORDER
    DOCKET NUMBER                                               (NH2112)

    LICENSE NUMBER                                              (NH2655)
```

LICENSING AUTHORITY INDICATOR (NH0473)

SAFEGUARDS GROUP NUMBER (NH3839)

LICENSEE NAME CODE (NH1562)

PRIORITY/CATEGORY (NH0253)

AMENDMENT REFERENCE (NH3366)

AMENDMENT DATE (NH7700)

LEVEL 4
IN ASCENDING ORDER

FROM DATE (INQ/INVEST/INSP) (WZ1738)

TO DATE (INQ/INVEST/INSP) (WZ3234)

REPORT NUMBER (WZ7964)

LEVEL 5

CODE ID (BN3907)

NC DEVIATION CODE SUFFIX (VX9427)

CAUSE CODE (VX0924)

PROCEDURE CODE (VX1710)

SEVERITY CODE (VX1820)

FUNCTIONAL AREA CODE (VX2457)

SPECIFIC GUIDE OR STANDARD (VX3828)

HOW ITEM IDENTIFIED (VX2398)

CONSEQUENCE CODE (VX3701)

EXEMPT INFORMATION (VX8151)

ADDTIONAL UNITS (VX3102)

CORRECTIVE ACTION STATUS (VX2150)

IDENTITY CODE OF COMPONENT TYPE (XW2040)

BRAND (WN1628)

MODEL (WN7216)

TYPE CODE OF COMPONENT PARAM SET (WN2513)

IF VIA

MAY BE A MEMBER OF COMPONENT (LTSC)

TYPE OF COMPONENT (SC2919)

COMPONENT ID (SC9999)

IF VIA
MAY BE A MEMBER OF COMPONENT GROUP (LTZP)

IDENTITY CODE OF COMPONENT GROUP (ZP3139)

COMPONENT S/G APPLICATION (ZP2871)

TITLE

NON-COMPLIANCE HISTORY BY INSPECTION MODULE

PURPOSE

THIS REPORT LISTS NON-COMPLIANCES IDENTIFIED DURING INSPECTIONS WHICH OCCURRED WITHIN A SPECIFIED TIME FRAME AND ASSOCIATED WITH A PARTICULAR INSPECTION MODULE.

FREQUENCY: AS REQUIRED (75/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

MODULE NUMBER	TYPE LENGTH	FIXED TEXT 7	(P1)
REPORT START DATE	TYPE LENGTH	DATE 6	(P2)
REPORT END DATE	TYPE LENGTH	DATE 6	(P3)

SELECTION

SELECT			
INSP MOD ASSIGN			(TFS)
AND VIA			
IS A MEMBER OF LICENSE TEXT			(TFZT)
THE CORRESPONDING			
LICENSE TEXT			(ZT)
AND VIA			
IS OWNED BY LICENSE			(ZTNH)
THE CORRESPONDING			
LICENSE			(NH)
AND VIA			
APPLIES TO LICENSEE			(NHFV)
THE CORRESPONDING			
LICENSEE			(FV)
WHERE			
MODULE ID NUMBER			(TF8712)
EQUAL			
MODULE NUMBER	TYPE LENGTH	FIXED TEXT 7	(P1)
THEN VIA			
IS A MEMBER OF INSPECTION PROGRAM			(TFLN)
INSPECTION PROGRAM			(LN)
THEN VIA			
HAS MOD INSP OCCURRENCES			(TFKG)
MOD INSP OCCURRENCES			(KGS)

```
WHERE EITHER
    MODULE INSPECTION START DATE                                    (KG9295)
OR
    DATE OF INSPECTION COMPLETION                                   (KG0385)
IS BOTH
1) GREATER THAN OR EQUAL
    REPORT START DATE                   TYPE    DATE                (P2    )
                                        LENGTH  6
AND
2) LESS THAN OR EQUAL
    REPORT END DATE                     TYPE    DATE                (P3    )
                                        LENGTH  6

THEN VIA
    HAS MODULE INSP UNITS                                           (KGCG  )

    MODULE INSP UNITS                                               (CGS   )
AND VIA
    APPLIES TO INSP/INVEST                                          (CGWZ  )
THE CORRESPONDING
    INSP/INVESTIGATION                                              (WZ    )

THEN VIA
    HAS N/C DEVIATIONS                                              (CGVX  )

    N/C DEVIATIONS                                                  (VXS   )
AND VIA
    IS DEFINED BY N/C CODE                                          (VXBN  )
THE CORRESPONDING
    N/C CODE                                                        (BN    )

THEN VIA
    HAS INSP OBSERVATIONS                                           (VXLT  )

    INSP OBSERVATION                                                (LT    )

THEN, IF
    MAY BE A MEMBER OF COMPONENT                                    (LTSC  )
SELECT THE CORRESPONDING
    COMPONENT                                                       (SC    )

THEN VIA
    BELONG TO COMPONENT GROUPS                                      (SCZP  )

    COMPONENT GROUP                                                 (ZP    )

ELSE IF
    MAY BE A MEMBER OF COMPONENT GROUP                              (LTZP  )
SELECT THE CORRESPONDING
    COMPONENT GROUP                                                 (ZP    )

THEN IN ANY CASE VIA
    HAS COMPONENT PARAM SETS                                        (ZPWN  )

    COMPONENT PARAM SET                                             (WN    )

THEN VIA
    APPLIES TO COMPONENT TYPE                                       (WNXW  )
```

COMPONENT TYPE (XW)

DISPLAY

LEVEL 1
IN ASCENDING ORDER
MODULE ID NUMBER (TF8712)

MANUAL CHAPTER NUMBER (LN0187)

INSPECTION PROGRAM TITLE (LN6523)

LICENSE NUMBER (NH2655)

DOCKET NUMBER (NH2112)

LICENSING AUTHORITY INDICATOR (NH0473)

CORPORATE NAME OF LICENSEE (FV0396)

LEVEL 2
IN ASCENDING ORDER
FROM DATE (INQ/INVEST/INSP) (WZ1738)

TO DATE (INQ/INVEST/INSP) (WZ3234)

REPORT NUMBER (WZ7964)

LEVEL 3
NC DEVIATION CODE SUFFIX (VX9427)

CAUSE CODE (VX0924)

PROCEDURE CODE (VX1710)

SEVERITY CODE (VX1820)

FUNCTIONAL AREA CODE (VX2457)

IDENTITY CODE OF COMPONENT TYPE (XW2040)

BRAND (WN1628)

MODEL (WN7216)

TYPE CODE OF COMPONENT PARAM SET (WN2513)

IF VIA
MAY BE A MEMBER OF COMPONENT (LTSC)

TYPE OF COMPONENT (SC2919)

COMPONENT ID (SC9999)

IF VIA
MAY BE A MEMBER OF COMPONENT GROUP (LTZP)

IDENTITY CODE OF COMPONENT GROUP (ZP3139)

TITLE

NON-COMPLIANCE HISTORY BY COMPONENT TYPE

PURPOSE

THIS REPORT LISTS NON-COMPLIANCES IDENTIFIED DURING INSPECTIONS WHICH OCCURRED WITHIN A SPECIFIED TIME FRAME AND ASSOCIATED WITH A PARTICULAR COMPONENT TYPE.

FREQUENCY: BI-MONTHLY OR UPON REQUEST (100/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

DESIRED COMPONENT TYPE	TYPE LENGTH	FIXED TEXT	(P1)
REPORT START DATE	TYPE LENGTH	DATE 6	(P2)
REPORT END DATE	TYPE LENGTH	DATE 6	(P3)

SELECTION

SELECT			
COMPONENT TYPE			(XW)
WHERE			
IDENTITY CODE OF COMPONENT TYPE			(XW2040)
EQUAL			
DESIRED COMPONENT TYPE	TYPE LENGTH	FIXED TEXT	(P1)
THEN VIA			
REQUIRES COMPONENT PARAM SETS			(XWWN)
COMPONENT PARAM SETS			(WNS)
THEN VIA			
DEFINES PARAM SETS OF COMPONENT GROUPS			(WNZP)
COMPONENT GROUPS			(ZPS)
THEN 1) VIA			
MAY HAVE INSP OBSERVATIONS			(ZPLT)
INSP OBSERVATIONS			(LTS)
2) VIA			
HAS COMPONENTS			(ZPSC)
COMPONENTS			(SCS)
AND VIA			
MAY HAVE INSP OBSERVATIONS			(SCLT)

```
    INSP OBSERVATIONS                                                    (LTS    )

IN EITHER CASE THEN VIA
    IS A MEMBER OF N/C DEVIATION                                         (LTVX   )
 THE CORRESPONDING
    N/C DEVIATION                                                        (VX     )
 AND VIA
    APPLY TO MODULE INSP UNIT                                            (VXCG   )
 THE CORRESPONDING
    MODULE INSP UNIT                                                     (CG     )
 AND VIA
    APPLIES TO INSP/INVEST                                               (CGWZ   )
 THE CORRESPONDING
    INSP/INVESTIGATION                                                   (WZ     )
 WHERE EITHER
    FROM DATE (INQ/INVEST/INSP)                                          (WZ1738)
 OR
    TO DATE (INQ/INVEST/INSP)                                            (WZ3234)
 IS BOTH
1) GREATER THAN OR EQUAL
    REPORT START DATE                  TYPE     DATE                     (P2     )
                                       LENGTH   6
 AND
2) LESS THAN OR EQUAL
    REPORT END DATE                    TYPE     DATE                     (P3     )
                                       LENGTH   6

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    IDENTITY CODE OF COMPONENT TYPE                                      (XW2040)

AND ALL DATA ELEMENTS FROM THE APPROPRIATE SUBCONSTRUCT

LEVEL 2
IN ASCENDING ORDER
    BRAND                                                                (WN1628)

    MODEL                                                                (WN7216)

    TYPE CODE OF COMPONENT PARAM SET                                     (WN2513)

    REFERENCE TO SPECS                                                   (WN9174)

    AVAILABILITY-SPECS                                                   (WN8624)

    DATE OF INTRODUCTION                                                 (WN5159)

    SPECIFICATIONS ABSTRACT                                              (WN3106)

LEVEL 3
IN ASCENDING ORDER
    FROM DATE (INQ/INVEST/INSP)                                          (WZ1738)

    TO DATE (INQ/INVEST/INSP)                                            (WZ3234)

    REPORT NUMBER                                                        (WZ7964)
```

ACTIVITY CODE (WZ8305)

FACILITY NAME (FROM 766) (WZ6809)

LICENSEE/VENDOR (FROM 766) (WZ2849)

INSPECTOR/INVESTIGATOR NAME (WZ3630)

REVIEWER'S NAME (WZ6358)

PRINCIPAL INSPECTOR/INVESTIGATOR NAME (WZ4818)

REGION CONDUCTING ACTIVITY (WZ8426)

DATE 766 ENTERED INTO COMPUTER FILE (WZ6721)

DCS REFERENCE TO TEXTUAL REPORT (WZ6094)

AND ALL DATA ELEMENTS FROM THE APPROPRIATE SUBCONSTRUCT

LEVEL 4

NC DEVIATION CODE SUFFIX (VX9427)

CAUSE CODE (VX0924)

PROCEDURE CODE (VX1710)

SEVERITY CODE (VX1820)

FUNCTIONAL AREA CODE (VX2457)

TITLE

LIST OF PNS BY LICENSE

PURPOSE

THIS REPORT LISTS PRELIMINARY NOTIFICATIONS WHICH ARE DATED WITHIN A SPECIFIED TIME FRAME AND ARE ASSOCIATED WITH A PARTICULAR LICENSE NUMBER.
IF ADDITIONAL INFORMATION IS DESIRED CONCERNING THE EVENT ASSOCIATED WITH A PARTICULAR PN, ISIS REPORT R1135 MAY BE USED TO LIST ALL EVENT DOCUMENTATION FOR A GIVEN EVENT NUMBER.

FREQUENCY: AS REQUIRED (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

LICENSE NUMBER	TYPE	FIXED TEXT	(P1)
	LENGTH	13	
DEFAULT = ALL			
REPORT START DATE	TYPE	DATE	(P2)
	LENGTH	6	
REPORT END DATE	TYPE	DATE	(P3)
	LENGTH	6	

SELECTION

SELECT
PN DOCUMENTATION (NQS)
AND VIA
APPLIES TO LICENSES (MNNH)
THE CORRESPONDING
LICENSE (NH)
WHERE
LICENSE NUMBER (NH2655)
EQUAL
LICENSE NUMBER TYPE FIXED TEXT (P1)
LENGTH 13
AND
PN DATE (NQ5137)
IS BOTH
1) GREATER THAN OR EQUAL
REPORT START DATE TYPE DATE (P2)
LENGTH 6
AND
2) LESS THAN OR EQUAL
REPORT END DATE TYPE DATE (P3)
LENGTH 6

THEN VIA
RESULTS FROM EVENTS (MNFR)
THE CORRESPONDING
EVENT (FR)

```
THEN 1) IF
    APPLIES TO SITE                                    (FRMX   )
 THE CORRESPONDING
    SITE                                               (MX     )

2) IF VIA
    APPLIES TO TRIP                                    (FRWG   )
 THE CORRESPONDING
    TRIP                                               (WG     )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    LICENSE NUMBER                                     (NH2655)

LEVEL 2
IN ASCENDING ORDER
    PN DATE                                            (NQ5137)

    EVENT NUMBER                                       (FR3586)

    PN NUMBER                                          (NQ7282)

    STATUS                                             (NQ0033)

    SUBJECT                                            (NQ4950)

IF VIA
    APPLIES TO SITE                                    (FRMX   )

    FACILITY NAME                                      (MX3850)

IF VIA
    APPLIES TO TRIP                                    (FRWG   )

    CARRIER ID                                         (WG4829)
```

TITLE

LIST OF LERS BY LICENSE

PURPOSE

THIS REPORT LISTS LICENSEE EVENT REPORTS WITH EVENT DATES WITHIN A SPECIFIED TIME FRAME AND WHICH ARE ASSOCIATED WITH A SPECIFIED LICENSE NUMBER.

FREQUENCY: AS REQUIRED (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

DESIRED LICENSE NUMBER	TYPE	FIXED TEXT	(P1)
	LENGTH	13	
REPORT START DATE	TYPE	DATE	(P2)
	LENGTH	6	
REPORT END DATE	TYPE	DATE	(P3)
	LENGTH	6	

SELECTION

SELECT
LICENSEE EVENT REPORT (LGS)
AND VIA
APPLIES TO LICENSES (MNNH)
THE CORRESPONDING
LICENSE (NH)
WHERE
LICENSE NUMBER (NH2655)
EQUAL
DESIRED LICENSE NUMBER — TYPE FIXED TEXT (P1) / LENGTH 13
AND
EVENT DATE-FROM LER (LG0319)
IS BOTH
1) GREATER THAN OR EQUAL
REPORT START DATE — TYPE DATE (P2) / LENGTH 6
AND
2) LESS THAN OR EQUAL
REPORT END DATE — TYPE DATE (P3) / LENGTH 6

THEN VIA
RESULTS FROM EVENTS (MNFR)
THE CORRESPONDING
EVENT (FR)

THEN 1) IF
APPLIES TO SITE (FRMX)

```
 THE CORRESPONDING
    SITE                                                    (MX     )

2) IF
    APPLIES TO TRIP                                         (FRWG   )
 THE CORRESPONDING
    TRIP                                                    (WG     )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    LICENSE NUMBER                                          (NM2655)

LEVEL 2
IN ASCENDING ORDER
    EVENT DATE-FROM LER                                     (LG0319)

    REPORT DATE OF LER                                      (LG7590)

    EVENT TYPE FROM LER                                     (LG3575)

    CATEGORY-FROM LER                                       (LG7568)

    LER REPORT NUMBER                                       (LG0104)

    FACILITY STATUS-FROM LER                                (LG4697)

IF VIA
    APPLIES TO SITE                                         (FRMX   )

    FACILITY NAME                                           (MX3850)

IF VIA
    APPLIES TO TRIP                                         (FRWG   )

    CARRIER ID                                              (WG4829)
```

TITLE

LIST OF LERS BY EVENT TYPE

PURPOSE

THIS REPORT LISTS LICENSEE EVENT REPORTS WITH EVENT DATES WITHIN A SPECIFIED TIME-FRAME AND WHICH HAVE A SPECIFIED EVENT TYPE.

FREQUENCY: AS REQUIRED (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

EVENT TYPE	TYPE LENGTH	FIXED TEXT 2	(P1)
REPORT START DATE	TYPE LENGTH	DATE 6	(P2)
REPORT END DATE	TYPE LENGTH	DATE 6	(P3)

SELECTION

SELECT
LICENSEE EVENT REPORT (LGS)
AND VIA
APPLIES TO LICENSES (MNNH)
THE CORRESPONDING
LICENSE (NH)
WHERE
EVENT TYPE FROM LER (LG3575)
EQUAL
EVENT TYPE — TYPE FIXED TEXT, LENGTH 2 (P1)
AND
EVENT DATE-FROM LER (LG0319)
IS BOTH
1) GREATER THAN OR EQUAL
REPORT START DATE — TYPE DATE, LENGTH 6 (P2)
AND
2) LESS THAN OR EQUAL
REPORT END DATE — TYPE DATE, LENGTH 6 (P3)

THEN VIA
RESULTS FROM EVENTS (MNFR)
THE CORRESPONDING
EVENT (FR)

THEN 1) IF
APPLIES TO SITE (FRMX)
THE CORRESPONDING

```
    SITE                                                    (MX     )

2) IF
    APPLIES TO TRIP                                         (FRWG   )
 THE CORRESPONDING
    TRIP                                                    (WG     )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    EVENT TYPE FROM LER                                     (LG3575)

LEVEL 2
IN ASCENDING ORDER
    EVENT DATE-FROM LER                                     (LG0319)

    REPORT DATE OF LER                                      (LG7590)

    LER REPORT NUMBER                                       (LG0104)

    CATEGORY-FROM LER                                       (LG7568)

    FACILITY STATUS-FROM LER                                (LG4697)

    LICENSE NUMBER                                          (NM2655)

IF VIA
    APPLIES TO SITE                                         (FRMX   )

    FACILITY NAME                                           (MX3850)

IF VIA
    APPLIES TO TRIP                                         (FRWG   )

    CARRIER ID                                              (WG4829)
```

TITLE

LIST OF INVESTIGATIONS BY LICENSE

PURPOSE

THIS REPORT LISTS INVESTIGATIONS WHICH ARE DATED WITHIN A SPECIFIED TIME FRAME AND WHICH ARE ASSOCIATED WITH A SPECIFIED LICENSE NUMBER. IF ADDITIONAL INFORMATION IS DESIRED FOR THE EVENT ASSOCIATED WITH A PARTICULAR INVESTIGATION, ISIS REPORT R1135 MAY BE USED TO LIST ALL EVENT DOCUMENTATION FOR A GIVEN EVENT NUMBER.

FREQUENCY: AS REQUIRED (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 3 PAGES

PARAMETERS

LICENSE NUMBER	TYPE LENGTH	FIXED TEXT 13	(P1)
REPORT START DATE	TYPE LENGTH	DATE 6	(P2)
REPORT END DATE	TYPE LENGTH	DATE 6	(P3)

SELECTION

SELECT
INVESTIGATIONS (FZS)
AND VIA
IS REFERENCED TO LICENSE (wZNH)
THE CORRESPONDING
LICENSE (NH)
WHERE
LICENSE NUMBER (NH2655)
EQUAL
LICENSE NUMBER TYPE LENGTH FIXED TEXT 13 (P1)
AND EITHER
FROM DATE (INQ/INVEST/INSP) (wZ1738)
OR
TO DATE (INQ/INVEST/INSP) (wZ3234)
IS BOTH
1) GREATER THAN OR EQUAL
REPORT START DATE TYPE LENGTH DATE 6 (P2)
AND
2) LESS THAN OR EQUAL
REPORT END DATE TYPE LENGTH DATE 6 (P3)

THEN VIA
MAY RESULT IN EVENT DOCUMENTATION (wZMN)

```
 THE LAST
    INSP/INVEST ACTIVITY                                    (HW     )

THEN VIA
    RESULTS FROM EVENTS                                     (MNFR   )
 THE CORRESPONDING
    EVENT                                                   (FR     )

THEN 1) IF
    APPLIES TO SITE                                         (FRMX   )
 THE CORRESPONDING
    SITE                                                    (MX     )

2) IF
    APPLIES TO TRIP                                         (FRWG   )
 THE CORRESPONDING
    TRIP                                                    (WG     )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    LICENSE NUMBER                                          (NH2655)

    DOCKET NUMBER                                           (NH2112)

    LICENSING AUTHORITY INDICATOR                           (NH0473)

    LICENSEE NAME CODE                                      (NH1562)

    PRIORITY/CATEGORY                                       (NH0253)

    SAFEGUARDS GROUP NUMBER                                 (NH3839)

    AMENDMENT REFERENCE                                     (NH3366)

    AMENDMENT DATE                                          (NH7700)

LEVEL 2
IN ASCENDING ORDER
    FROM DATE (INQ/INVEST/INSP)                             (WZ1738)

    TO DATE (INQ/INVEST/INSP)                               (WZ3234)

    REPORT NUMBER                                           (WZ7964)

    PRINCIPAL INSPECTOR/INVESTIGATOR NAME                   (WZ4818)

    FACILITY NAME (FROM 766)                                (WZ6809)

    LICENSEE/VENDOR (FROM 766)                              (WZ2849)

    INSPECTOR/INVESTIGATOR NAME                             (WZ3630)

    REVIEWER'S NAME                                         (WZ6358)

    REGION CONDUCTING ACTIVITY                              (WZ8426)

    ACTIVITY CODE                                           (WZ3305)
```

DATE 766 ENTERED INTO COMPUTER FILE (WZ6721)

DCS REFERENCE TO TEXTUAL REPORT (WZ6094)

AND ALL DATA ELEMENTS FROM THE SUBCONSTRUCT
INVESTIGATION (FZ)

EVENT NUMBER (FR3586)

EVENT DESCRIPTION (FR2552)

IF VIA
APPLIES TO SITE (FRMX)

FACILITY NAME (MX3850)

IF VIA
APPLIES TO TRIP (FRWG)

CARRIER ID (WG4829)

TITLE

LIST OF INVESTIGATIONS BY SUBJECT

PURPOSE

THIS REPORT LISTS INVESTIGATIONS WHICH ARE DATED WITHIN A SPECIFIED TIME FRAME AND WHICH ARE ASSOCIATED WITH A SPECIFIED SUBJECT CODE. IF ADDITIONAL INFORMATION IS DESIRED FOR THE EVENT ASSOCIATED WITH A PARTICULAR INVESTIGATION, ISIS REPORT RI135 MAY BE USED TO LIST ALL EVENT DOCUMENTATION FOR A GIVEN EVENT NUMBER.

FREQUENCY: AS REQUIRED (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

INVESTIGATION SUBJECT CODE	(P1)
REPORT START DATE	(P2)
REPORT END DATE	(P3)

SELECTION

SELECT	
INVESTIGATIONS	(FZS)
AND VIA	
IS REFERENCED TO LICENSE	(WZNH)
THE CORRESPONDING	
LICENSE	(NH)
WHERE	
SUBJECT OF INVESTIGATION CODE	(FZ3861)
EQUAL	
INVESTIGATION SUBJECT CODE	(P1)
AND EITHER	
FROM DATE (INQ/INVEST/INSP)	(WZ1738)
OR	
TO DATE (INQ/INVEST/INSP)	(WZ3234)
IS BOTH	
1) GREATER THAN OR EQUAL	
REPORT START DATE	(P2)
AND	
2) LESS THAN OR EQUAL	
REPORT END DATE	(P3)
THEN VIA	
MAY RESULT IN EVENT DOCUMENTATION	(WZMN)
THE LAST	
INSP/INVEST ACTIVITY	(HW)
THEN VIA	
RESULTS FROM EVENTS	(MNFR)
THE CORRESPONDING	
EVENT	(FR)

```
THEN 1) IF
    APPLIES TO SITE                                          (FRMX   )

    SITE                                                     (MX     )
 2) IF
    APPLIES TO TRIP                                          (FRWG   )

    TRIP                                                     (WG     )

DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    SUBJECT OF INVESTIGATION CODE                            (FZ3861)

LEVEL 2
IN ASCENDING ORDER
    FROM DATE (INQ/INVEST/INSP)                              (WZ1738)

    TO DATE (INQ/INVEST/INSP)                                (WZ3234)

    REPORT NUMBER                                            (WZ7964)

    PRINCIPAL INSPECTOR/INVESTIGATOR NAME                    (WZ4818)

    LICENSE NUMBER                                           (NH2655)

    EVENT NUMBER                                             (FR3586)

IF VIA
    APPLIES TO SITE                                          (FRMX   )

    FACILITY NAME                                            (MX3850)

IF VIA
    APPLIES TO TRIP                                          (FRWG   )

    CARRIER ID                                               (WG4829)
```

TITLE

LIST OF ACTIVE EVENTS

PURPOSE

THIS REPORT LISTS BASIC INFORMATION ABOUT ANY EVENT WHICH HAS NOT BEEN MARKED AS CLOSED AS OF THE CURRENT DATE. ISIS REPORT R1135 MAY THEN BE USED TO LIST THE EVENT DOCUMENTATION CORRESPONDING TO A PARTICULAR EVENT.

FREQUENCY: ON DEMAND (365/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 1 PAGE

PARAMETERS

NONE

SELECTION

SELECT
EVENTS (FRS)
WHERE
EVENT CLOSEOUT DATE (FR4195)
IS BLANK
THEN
1) VIA
APPLIES TO EVENT CATEGORY (FRJS)
THE CORRESPONDING
EVENT CATEGORY (JS)

2) IF VIA
APPLIES TO SITE (FRMX)
THE CORRESPONDING
SITE (MX)
OR
IF VIA
APPLIES TO TRIP (FRWG)
THE CORRESPONDING
TRIP (WG)

DISPLAY

LEVEL 1
IN ASCENDING ORDER
DATE OF EVENT (FR4455)

EVENT NUMBER (FR3586)

EVENT DESCRIPTION (FR2552)

EVENT CATEGORY (JS5511)

IF VIA
APPLIES TO SITE (FRMX)

FACILITY NAME (MX3650)

IF VIA
APPLIES TO TRIP (FRMG)

CARRIER ID (MG4829)

TITLE

EVENT HISTORY BY SITE

PURPOSE

THIS REPORT LIST BASIC INFORMATION ABOUT ALL EVENTS WHICH ARE ASSOCIATED WITH A PARTICULAR SITE. ISIS REPORT R1135 MAY THEN BE USED TO LIST THE EVENT DOCUMENTATION CORRESPONDING TO A PARTICULAR EVENT.

FREQUENCY: ON DEMAND (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

FACILITY NAME	TYPE LENGTH	FIXED TEXT	(P1)

SELECTION

SELECT

SITES			(MXS)
AND VIA			
HAS EVENTS			(MXFR)
THE ASSOCIATED			
EVENTS			(FRS)
WHERE			
FACILITY NAME			(MX3850)
EQUAL			
FACILITY NAME	TYPE LENGTH	FIXED TEXT	(P1)

THEN VIA			
APPLIES TO EVENT CATEGORY			(FRJS)
THE CORRESPONDING			
EVENT CATEGORY			(JS)

DISPLAY

LEVEL 1
IN ASCENDING ORDER

FACILITY NAME	(MX3850)

LEVEL 2
IN ASCENDING ORDER

DATE OF EVENT	(FR4455)
EVENT NUMBER	(FR3586)
EVENT DESCRIPTION	(FR2552)
EVENT CLOSEOUT DATE	(FR4195)
EVENT CATEGORY	(JS5511)

TITLE

LIST OF EVENT DOCUMENTATION BY EVENT

PURPOSE

THIS REPORT LIST IDENTIFYING INFORMATION OF THE EVENT DOCUMENTATION ASSOCIATED WITH A SPECIFIED EVENT.

FREQUENCY: ON DEMAND (50/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

EVENT NUMBER	TYPE LENGTH	FIXED TEXT	(P1)

SELECTION

SELECT
EVENTS (FRS)
WHERE
EVENT NUMBER (FR3586)
EQUAL
EVENT NUMBER TYPE LENGTH FIXED TEXT (P1)

THEN VIA
RESULTS IN EVENT DOCUMENTATION (FRMN)
LICENSEE EVENT REPORT (LGS)
PN DOCUMENTATION (NWS)
EVENT CORRESPONDENCES (DWS)
INSP/INVEST ACTIVITIE (HWS)
OTHER DOCUMENTATION (HMS)
DAILY REPORTS (WKS)

THEN FOR EACH
INSP/INVEST ACTIVITY (HW)
VIA
MAY INCLUDE INSP/INVESTIGATIONS (MNWZ)
THE CORRESPONDING
INSP/INVESTIGATION (WZ)

DISPLAY

LEVEL 1
IN ASCENDING ORDER
EVENT NUMBER (FR3586)

SUBSEQUENT ACTION NECESSARY (FR7832)

EVENT DESCRIPTION (FR2552)

DATE OF EVENT (FR4455)

TIME OF EVENT (FR3333)

WHO INPUT INFO (FR9900)

DATE OF INPUT (FR9669)

TIME OF INPUT (FR9559)

EVENT CLOSEOUT DATE (FR4195)

LEVEL 2
TYPE OF DOCUMENTATION (MN1155)

AND ALL DATA ELEMENTS FROM THE APPROPRIATE SUBCONSTRUCT

LEVEL 2
IN ASCENDING ORDER
FROM DATE (INQ/INVEST/INSP) (WZ1738)

TO DATE (INQ/INVEST/INSP) (WZ3234)

REPORT NUMBER (WZ7964)

INVESTIGATION FINDINGS (FZ5357)

PRINCIPAL INSPECTOR/INVESTIGATOR NAME (WZ4818)

AND ALL DATA ELEMENTS FROM THE APPROPRIATE SUBCONSTRUCT

TITLE

LIST OF N/C CODES

PURPOSE

THIS REPORT WILL LIST ALL NON-COMPLIANCE CODES KNOWN TO ISIS. FOR EACH CODE THE SOURCE REQUIREMENT WILL BE INDICATED AS FOLLOWS: IF THE CODE IS ASSOCIATED WITH A PARTICULAR REGULATION, PERTINENT REGULATION INFORMATION WILL BE REPORTED; IF THE CODE IS ASSOCIATED WITH THE TEXT OF ONE OR MORE LICENSES, PERTINENT LICENSE TEXT INFORMATION WILL BE REPORTED.

FREQUENCY : UPON REQUEST (2/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 100 PAGES

PARAMETERS

NONE

SELECTION

SELECT
N/C CODE (BN)
AND FOR EACH
1) IF THE RELATIONSHIP EXISTS, VIA
IS REQUIRED BY REGULATION (BNVF)
SELECT THE CORRESPONDING
REGULATION (VF)

2) IF THE RELATIONSHIP EXISTS, VIA
CROSS REF LICENSE TEXT (BNZT)
SELECT THE ASSOCIATED
LICENSE TEXT (ZT)
AND FOR EACH, VIA
IS OWNED BY LICENSE (ZTNH)
THE CORRESPONDING
LICENSE (NH)

DISPLAY

LEVEL 1
CODE ID (BN3909)

I & E ASSIGNED SEVERITY CODE (BN1534)

DESCRIPTION (BN1555)

DATE EFFECTIVE (BN4129)

DATE TERMINATED (BN3579)
AND, IF VIA
IS REQUIRED BY REGULATION (BNVF)

REGULATION IDENTIFICATION (VF7326)

SECTION TITLE (VF5852)

STATUS CODE (VF1793)

LEVEL 2 (ONLY IF N/C CODE IS ASSOCIATED WITH LICENSE TEXT)

DOCKET NUMBER (NH2112)

LICENSE NUMBER (NH2655)

LICENSING AUTHORITY INDICATOR (NH0473)

LICENSEE NAME CODE (NH1562)

PRIORITY/CATEGORY (NH0253)

SAFEGUARDS GROUP NUMBER (NH3839)

AMENDMENT REFERENCE (NH3366)

AMENDMENT DATE (NH7700)

LEVEL 3 (ONLY IF N/C CODE IS ASSOCIATED WITH LICENSE TEXT)

LICENSE TEXT SUBSET IDENTIFIER (LT5798)

LICENSE TEXT STATUS (LT8613)

MICROFICHE NUMBER (LT3729)

SUBMITTAL DATE (LT4923)

APPROVAL DATE (LT5676)

REJECTED DATE (LT4877)

EFFECTIVE DATE (LT5820)

TERMINATION DATE (LT7392)

TITLE

LIST OF NON-COMPLIANCES BY REGULATION

PURPOSE

THIS REPORT WILL LIST ALL ISIS KNOWN NON-COMPLIANCES SITED AGAINST A SPECIFIED REGULATION WITH IN A SPECIFIED TIME-FRAME.

FREQUENCY: UPON REQUEST (2/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 3 PAGES PER REGULATION

PARAMETERS

DESIRED REGULATION ID	TYPE LENGTH	FIXED TEXT	(P1)
REPORT PERIOD START DATE	TYPE TYPE	FIXED TEXT DATE	(P2)
REPORT PERIOD END DATE	TYPE TYPE	FIXED TEXT DATE	(P3)

SELECTION

SELECT			
REGULATION			(VF)
WHERE			
REGULATION IDENTIFICATION			(VF7326)
EQUALS			
DESIRED REGULATION ID	TYPE LENGTH	FIXED TEXT	(P1)
THEN VIA			
IDENTIFIES REQUIREMENT FOR N/C CODES			(VFBN)
N/C CODES			(BNS)
AND FOR EACH SELECT AS A GROUP VIA			
DEFINES N/C DEVIATION			(BNVX)
N/C DEVIATIONS			XS)
AND VIA			
APPLY TO MODULE INSP UNIT			(VXCG)
WHICH			
APPLIES TO INSP/INVEST			(CGWZ)
THE CORRESPONDING			
INSP/INVESTIGATION			(WZ)
ONLY IF EITHER			
FROM DATE (INQ/INVEST/INSP)			(WZ1738)
OR			
TO DATE (INQ/INVEST/INSP)			(WZ3234)
IS BOTH			
1) GREATER THAN OR EQUAL TO			
REPORT PERIOD START DATE	TYPE TYPE	FIXED TEXT DATE	(P2)
AND			

2) LESS THAN OR EQUAL TO
REPORT PERIOD END DATE — TYPE FIXED TEXT TYPE DATE (P3)

THEN, FOR EACH SELECTED
INSP/INVESTIGATION (WZ)
VIA
IS REFERENCED TO LICENSE (WZNH)
SELECT THE CORRESPONDING
LICENSE (NH)

DISPLAY

LEVEL 1
REGULATION IDENTIFICATION (VF7326)

SECTION TITLE (VF5852)

STATUS CODE (VF1793)

FEDERAL REGULATION DATE (VF7018)

APPROVAL DATE (VF7634)

EFFECTIVE DATE (VF4152)

TERMINATION DATE (VF0407)

MICROFICHE REFERENCE NUMBER (VF2134)

LEVEL 2
CODE ID (BN3909)

I & E ASSIGNED SEVERITY CODE (BN1534)

DESCRIPTION (BN1555)

DATE EFFECTIVE (BN4129)

DATE TERMINATED (BN3579)

LEVEL 3
LICENSE NUMBER (NH2655)

TYPE OF FINDING (VX6732)

NC DEVIATION CODE SUFFIX (VX9427)

CAUSE CODE (VX0924)

PROCEDURE CODE (VX1710)

SEVERITY CODE (VX1820)

FUNCTIONAL AREA CODE (VX2457)

REPORT NUMBER (WZ7964)

FROM DATE (INQ/INVEST/INSP) (WZ1738)

TO DATE (INQ/INVEST/INSP) (WZ3234)

TITLE

EVENT DOUCMENTATION UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE EVENT DOCUMENTATION CONSTRUCT

FREQUENCY: AS REQUIRED

LEVEL 1

UPDATE EVENT DOCUMENTATION	(MN)
IDENTITY RELATIONSHIP RESULTS FROM EVENTS	(MNFR)
KEYED BY EVENT NUMBER	(FR3586)
OTHER IDENTITY DATA TYPE OF DOCUMENTATION	(MN1155)
AND FOR LICENSEE EVENT REPORT	(LG)
LER REPORT NUMBER	(LG0104)
FOR PN DOCUMENTATION	(NQ)
PN NUMBER	(NQ7282)
FOR EVENT CORRESPONDENCE	(DW)
DCS REFERENCE	(DW6139)
FOR INSP/INVEST ACTIVITY	(HW)
DCS REFERENCE	(HW1067)
FOR OTHER DOCUMENTATION	(HM)
DCS REFERENCE	(HM2733)
FOR DAILY REPORT	(WK)

```
    DCS REFERENCE                                              (WK0125)

DATA RELATIONSHIP
    APPLIES TO LICENSES                                        (MNNH  )

KEYED BY EITHER
    LICENSE NUMBER                                             (NH2655)

OR
    DOCKET NUMBER                                              (NH2112)

DATA RELATIONSHIP
    MAY INCLUDE INSP/INVESTIGATIONS                            (MNWZ  )

KEYED BY
    REPORT NUMBER                                              (WZ7964)

DATA RELATIONSHIP
    RESULTS FROM N/C /DEVIATIONS                               (MNVX  )

FOR THE
    N/C DEVIATION                                              (VX    )

WHICH

PATH 1
    IS DEFINED BY N/C CODE                                     (VXBN  )

KEYED BY
    CODE ID                                                    (BN3909)

PATH 2
    APPLY TO MODULE INSP UNIT                                  (VXCG  )

WHICH
    APPLIES TO INSP/INVEST                                     (CGWZ  )

KEYED BY
    REPORT NUMBER                                              (WZ7964)

OTHER DATA
FOR SUBCONSTRUCT
UPDATE
    LICENSEE EVENT REPORT                                      (LG    )

THE DATA ELEMENTS
    LER REPORT NUMBER                                          (LG0104)

    EVENT TYPE FROM LER                                        (LG3575)

    EVENT DESCRIPTION (TEXT)                                   (LG1078)

    REPORT DATE OF LER                                         (LG7590)

    EVENT DATE-FROM LER                                        (LG0319)

    REPORT SOURCE-FROM LER                                     (LG7205)

    REPORT TYPE-FROM LER                                       (LG3960)
```

CATEGORY-FROM LER (LG7568)

DISCOVERY DESCRIPTION-FROM LER (LG9075)

LLEA NOTIFIED (LG4019)

METHOD OF DISCOVERY-FROM LER (LG4301)

OTHER STATUS (LG9306)

% POWER FROM LER (LG4257)

VIOLATION-FROM LER (LG0572)

COMPONENT MANUFACTURER-FROM LER (LG9471)

COMPONENT CODE-FROM LER (LG2167)

PRIME COMPONENT SUPPLIER-FROM LER (LG8789)

FACILITY STATUS-FROM LER (LG4697)

SYSTEM CODE-FROM LER (LG3894)

CAUSE-OF-EVENT CODE-FROM LER (LG6831)

FORM OF ACTIVITY RELEASED-FROM LER (LG2596)

CONTENT OF RELEASE-FROM LER (LG6853)

AMOUNT OF ACTIVITY-FROM LER (LG4752)

LOCATION OF RELEASE-FROM LER (LG4862)

NUMBER OF PERSONNEL EXPOSURES-FROM LER (LG1727)

TYPE OF PERSONNEL EXPOSURE-FROM LER (LG7689)

DESCRIPTION OF PERSONNEL EXPOSURE-FROM L (LG2145)

NUMBER OF PERSONNEL INJURIES-FROM LER (LG3674)

DESCRIPTION OF PERSONNEL INJURIES-FROM L (LG9603)

OFFSITE CONSEQUENCES-FROM LER (LG9713)

TYPE OF LOSS OR DAMAGE TO FACILITY-LER (LG1760)

DESCRIPTION OF LOSS/DAMAGE TO FACILITY-L (LG6171)

PUBLICITY-FROM LER (LG2464)

ADDITIONAL FACTORS-FROM LER (LG0946)

FOR THE SUBCONSTRUCT
UPDATE
PN DOCUMENTATION (NQ)

THE DATA ELEMENTS
PN NUMBER (NQ7282)

PN DATE (NQ5137)

FACILITY(S) (NQ5962)

LICENSEE NAME (NQ5775)

SITE (NQ3476)

SUBJECT (NQ4950)

EVENT DESCRIPTION (NQ8723)

COMPONENT INVOLVED (NQ8118)

DCS REFERENCE (NQ0781)

EXPIRATION DATE (NQ0792)

EXPIRATION TIME (NQ3069)

STATUS (NQ0033)

EXEMPT FROM PUBLIC DISCLOSURE (NQ2816)

FOR THE SUBCONSTRUCT
UPDATE
EVENT CORRESPONDENCE (DW)

THE DATA ELEMENTS
DCS REFERENCE (DW6138)

DESCRIPTION OF CORRESPONDENCE (DW5016)

TYPE OF CORRESPONDENCE (CODE) (DW5038)

DATE OF LETTER (DW0231)

WHO GENERATED (DW0517)

RECIPIENT (DW0748)

EXEMPT FROM PUBLIC DISCLOSURE (DW5698)

FOR THE SUBCONSTRUCT
UPDATE
INSP/INVEST ACTIVITY (HW)

THE DATA ELEMENTS
EXEMPT FROM PUBLIC DISCLOSURE (HW4763)

DATE OF REPORT (HW2343)

DCS REFERENCE (HW1067)

FOR THE SUBCONSTRUCT
UPDATE

OTHER DOCUMENTATION (HM)

THE DATA ELEMENTS
DCS REFERENCE (HM2733)

DESCRIPTION (HM1930)

DATE OF DOCUMENTATION (HM2809)

SOURCE OF DOCUMENTATION (HM2127)

FOR THE SUBCONSTRUCT
UPDATE
DAILY REPORT (WK)

THE DATA ELEMENTS
DCS REFERENCE (WK0125)

DATE OF REPORT (WK1001)

TITLE

EVENT CATEGORY FORM

PURPOSE

THIS FORM INPUTS THE CATEGORIES OF EVENTS.

FREQUENCY: ONCE, THEN AS CHANGES OCCUR.

LEVEL 1

UPDATE
EVENT CATEGORY (JS)

KEYED BY
EVENT CATEGORY (JS5511)

TITLE

EVENT UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE EVENT CONSTRUCT. IF A COMPONENT OR TRIP IS REFERENCED, AND IT IS NOT ALREADY IN THE DATA BASE, THIS FORM WILL ALSO UPDATE COMPONENT OR TRIP DATA.

FREQUENCY: AS REQUIRED

LEVEL 1

UPDATE
EVENT (FR)

KEYED BY
EVENT NUMBER (FR3586)

DATA RELATIONSHIP
CROSS REF COMPONENT (FRSC)

KEYED BY
TYPE OF COMPONENT (SC2919)

AND
SERIAL NUMBER
WHICH
BELONG TO COMPONENT GROUPS (SCZP)

KEYED BY
IDENTITY CODE OF COMPONENT GROUP (ZP3139)

WHICH
HAS COMPONENT PARAM SETS (ZPWN)

KEYED BY
BRAND (WN1628)

MODEL (WN7216)

DATA RELATIONSHIP
APPLIES TO EVENT CATEGORY (FRJS)

KEYED BY
EVENT CATEGORY (JS5511)

DATA RELATIONSHIP
IF
APPLIES TO TRIP (FRWG)

KEY BY
TRIP IDENTIFICATION NUMBER (WG8584)

IF
APPLIES TO SITE (FRMX)

KEY BY
FACILITY NAME (MX3850)

OTHER DATA
SUBSEQUENT ACTION NECESSARY (FR7832)

EVENT DESCRIPTION (FR2552)

DATE OF EVENT (FR4455)

TIME OF EVENT (FR3333)

WHO INPUT INFO (FR9900)

DATE OF INPUT (FR9669)

TIME OF INPUT (FR9559)

EVENT CLOSEOUT DATE (FR4195)

AND IF
COMPONENT (SC)

COMPONENT ID (SC9999)

COMPONENT S/G APPLICATION (ZP2871)

AND IF
EQUIPMENT COMPONENT (KP)

SERIAL NUMBER (KP6413)

DATE OF INSTALLATION (KP9130)

DATE OF LAST MAINTENANCE (KP6710)

DATE OF LAST CALIBRATION (KP3795)

DATE OF LAST FAILURE (KP4510)

COMPONENT OWNER (KP6490)

ICC IDENTIFICATION (KP0044)

ELSE IF
MAT ACCTG COMPONENT (TQ)

SERIAL NUMBER (TQ3377)

MEASUREMENT STANDARD (TQ3388)

FREQUENCY OF CALIBRATION (TQ3399)

SIZE OF SAMPLE NECESSARY (TQ3443)

DATE OF INSTALLATION (TQ1551)

AND IF
TRIP (WG)

CARRIER ID (WG4829)

TITLE

NONCOMPLIANCE CODES

PURPOSE

THIS FORM INPUTS THE NONCOMPLIANCE CODES, THEIR MEANINGS, AND A REFERENCE TO THE APPLICABLE REGULATION.

FREQUENCY: ONCE, THEN AS CHANGES OCCUR

LEVEL 1

UPDATE
N/C CODE (BN)

KEYED BY
CODE ID (BN3909)

DATA RELATIONSHIP
UPDATE
IS REQUIRED BY REGULATION (BNVF)

KEYED BY
REGULATION IDENTIFICATION (VF7326)

DATA RELATIONSHIP
CROSS REF LICENSE TEXT (BNZT)

IS OWNED BY LICENSE (ZTNH)

KEYED BY
DOCKET NUMBER (NH2112)

OTHER DATA
I & E ASSIGNED SEVERITY CODE (BN1534)

DESCRIPTION (BN1555)

DATE EFFECTIVE (BN4129)

DATE TERMINATED (BN3579)

SECTION TITLE (VF5852)

STATUS CODE (VF1793)

FEDERAL REGULATION DATE (VF7018)

APPROVAL DATE (VF7634)

EFFECTIVE DATE (VF4152)

TERMINATION DATE (VF0407)

MICROFICHE REFERENCE NUMBER (VF2134)

TITLE

GENERIC HARDWARE SPECIFICATION

PURPOSE

THIS FORM INPUTS GENERAL DATA ON EQUIPMENT IN USE WITHIN THE LICENSED NUCLEAR INDUSTRY. THE DATA INCLUDE VENDOR (BRAND), MODEL, AND OTHER GENERIC DATA WHICH ARE NOT SITE SPECIFIC.

FREQUENCY: AS REQUIRED

LEVEL 1

UPDATE
COMPONENT TYPE (XW)

KEYED BY
IDENTITY CODE OF COMPONENT TYPE (XW2040)

UPDATE ONE OF THE FOLLOWING SUBCONSTRUCTS DEPENDING ON IDENTITY
ASSAY TECHNIQUE TYPE (QS)

BARRIER TYPE (SW)

COMMUNICATION TYPE (FG)

CONTAINER TYPE (ZN)

G/S COMPONENT TYPE (PR)

LOCK TYPE (WP)

MAT ACCTG EQUIPMENT (RZ)

MONITOR/ALARM TYPE (VK)

PERSONNEL ID TYPE (PW)

PERSONNEL TYPE (BT)

SEAL TYPE (TX)

SURVEILLANCE TYPE (JB)

VEHICLE TYPE (DZ)

WEAPON TYPE (XT)

OTHER DATA

FIELD 1

ONE OF THE FOLLOWING DATA ELEMENTS

PERSONNEL TYPE	(BT3454)
TYPE OF VEHICLE	(DZ0814)
TYPE OF CONTAINERS	(ZN1430)
TYPES OF MONITERS/INTRUSION ALARMS	(VK8679)
TYPE OF ASSAY TECHNIQUE	(QS8503)
TYPE OF COMMUNICATION	(FG8690)
TYPE OF GUARD STATION EQUIPMENT	(PR0143)
TYPE OF PERSONNEL IDENTIFIER	(PW4059)
TYPE OF BARRIERS	(SW7931)
TYPE OF LOCK	(WP2585)
TYPE OF SEAL	(TX3025)
TYPE OF SURVEILLANCE	(JB7810)
TYPE OF WEAPON	(XT7359)
TYPE OF MATL ACCTG EQUIPMENT	(RZ9031)

FIELD 2

ONE OF THE FOLLOWING DATA ELEMENTS

PERSONNEL FUNCTION	(BT3289)
VEHICLE FUNCTION	(DZ7821)
CONTAINER FUNCTION	(ZN1364)
MONITOR/ALARM FUNCTIONS	(VK1573)
FUNCTION OF ASSAY TECHNIQUE	(QS4081)
FUNCTION OF COMMUNICATION	(FG6017)
FUNCTION OF GUARD STATION EQUIPMENT	(PR7348)
FUNCTION OF PERSONNEL IDENTIFIER	(PW7095)
FUNCTION OF BARRIERS	(SW0275)
FUNCTION OF LOCK	(WP9218)
FUNCTION OF SEAL	(TX2904)
FUNCTION OF SURVEILLANCE	(JB3751)
FUNCTION OF WEAPON	(XT9020)

FUNCTION OF MATL ACCTG EQUIPMENT (RZ2486)

LEVEL 2

UPDATE
COMPONENT PARAM SET (WN)

KEYED BY
BRAND (WN1628)

MODEL (WN7216)

IDENTITY RELATIONSHIP
APPLIES TO COMPONENT TYPE (WNXW)

OTHER DATA
TYPE CODE OF COMPONENT PARAM SET (WN2513)

REFERENCE TO SPECS (WN9174)

AVAILABILITY-SPECS (WN8624)

DATE OF INTRODUCTION (WN5159)

SPECIFICATIONS ABSTRACT (WN3106)

MATERIAL ACCOUNTING (MAC)

1.0 ABSTRACT

As part of its charter, the Nuclear Regulatory Commission is responsible for safeguarding nuclear material against diversion or unauthorized use. A major part of the NRC program designed to fulfill this responsibility involves nuclear material accounting. The Federal Code of Regulations requires that any individual, corporation, or institution authorized by license from NRC, or an agreement state, to possess special nuclear material, must report to NRC on a repetitive basis the location and quantities of SNM currently in the licensee's possession (currently physical inventory NRC 742 forms). Additionally, licensees must report any transfers of SNM between authorized possession areas which have been assigned Reporting Identification Symbols--RISs (currently material transfer NRC 741 forms). The licensee must provide NRC information about nuclear material types and quantities as well as transportation routing data for each transfer of special nuclear material.

The Material Accounting Service Module (MAC) is that part of ISIS which is responsible for inputting, editing, verification, storage, and reporting of all nuclear material inventory and transfer data reported to NRC. The data captured by the MAC module encompasses all aspects of the nuclear fuel cycle. The data currently reported to NRC which will be processed by MAC includes:

- Material acquisition (owner accounts)
- Material transformations (transmutation, decay, or fission)
- Material use (material type/composition codes)
- Material losses (normal, measured, accidental)
- Material transfers (book or physical movement)
- Material unaccounted for/inventory differences (MUF/ID)
- Limits of error.

The currently employed concept of maintaining separate book and physical material inventories is embodied in the requirements of the MAC module.

Additionally, MAC produces a variety of user-oriented reports. A partial list of the capabilities provided by the MAC reports includes:

- Calculation of daily book balances for each ICA/MBA.
- Comparison of reported limits of error with error measurement capabilities specified in the licensee's material accounting plan.
- Comparison of reported material possession with authorized possession limits.
- Retention of historical records to allow trend analysis and shipper-receiver differences analysis.
- Trigger-level reporting of increasing ID and measurement error trends.
- Preparation of nuclear material data for reporting to IAEA.
- Provide to licensees a record of all data which has been reported by the individual licensee and processed by MAC for storage in ISIS.

2.0 PURPOSE OF MAC

2.1 FUNCTIONS AND CAPABILITIES

The Material Accounting Module (MAC) must satisfy two goals:

- Provide the capability to satisfy all of the NRC current informational needs regarding SNM accounting data.
- Provide the flexibility to evolve as the regulatory environment evolves.

MAC is intended to provide special nuclear material (SNM) accounting information to the NRC on a regular basis. The SNM information will be both current and historical. Because of the basic supporting role of the material accounting data, MAC provides data to nearly all of the NRC offices with the major users being the Office of Inspection and Enforcement and the Office of Nuclear Material Safety and Safeguards. The materials considered to be of interest to NRC are listed in MAC Table 1.

MAC TABLE 1

MATERIAL OF INTEREST TO NRC AND IAEA

Normal Uranium
Depleted Uranium
Thorium
Enriched Uranium (U^{235})
Enriched Uranium (U^{233})
Plutonium
Plutonium (Pu^{238})
Tritium

All data entered into MAC will be in the form of transactions. MAC Table 2 lists the transactions that will be reported on the RIS level (MAC module is capable of evolving to an MBA/ICA reporting level if necessary). As indicated in Table 2, MAC supports item transactions. An item transaction will only require the item number after the initial entry of the item description.

MAC TABLE 2

REPORTABLE TRANSACTIONS

Degradation to another material
Formation from another material

Transmutation
Decay
Fission

Normal Operating Losses
Measured Discards
Accidental Losses

MUF
LEMUF

Item Transfers
Item Changes

"Batch" Transfers
"Batch" Changes

Owner Transactions
Country of Origin Transactions
Utility Account Transactions

Physical inventory data will also be reported as transactions (i.e., MUF, measured discards, accidental losses, etc.). Once the physical inventory data are in (within at most 30 days of the inventory), MAC will generate a report to the licensee listing the material at his plant which he must confirm as correct or provide correction transactions to resolve discrepancies. The report lists all transactions since the previous inventory, as well as a detailed listing of location of materials at physical inventory time. Cycle time for correction will be limited and subject to enforcement. It is assumed here that physical inventories may be taken at any time within specified periods (perhaps six months or a year for LEU and two to three months for HEU and Pu).

The level of assurance that special nuclear material is in fact being safeguarded is strongly dependent upon the timeliness of the data and the level of detail of the data gathered. MAC will provide data permitting NRC to:

- evaluate plant performance;
- develop triggers and alarms to signal abnormal conditions;

- retrieve data needed for assessment and event response;
- aid in the investigation and possible recovery in cases where it has been determined that material is missing.

In addition MAC provides NRC with a means of determining and controlling the data which are reported to the IAEA.

To enable the NRC to evaluate plant performance, MAC calculates a book balance each day for each RIS, ICA, or MBA, and retains the most current inventory data. Using equipment standard errors, it calculates ID and physical inventory and the measurement error associated with the inventory and compares the book and physical inventory values to determine the level of inventory differences. It compares reported limits of error with the error measurement capabilities specified in the licensee's material accounting plan. MAC retains historical records of all reported transactions and inventories to allow for trend analysis and for shipper-receiver differences (SRD) comparisons to ensure the integrity of reporting.

Using NRC-determined trigger levels, MAC provides outputs on reporting errors (a limit on which will be license-specified to increase the quality of the data), increasing ID and measurement error trends, CUMUF and ID above historical levels for the plant, shipper-receiver difference biases or trends, and other abnormal occurrences such as unusually large shipments or negative book balances. These trigger-level limits may be determinable through experience gained using the MAC module reports. When a situation occurs requiring additional investigation, ISIS can respond with historical data on transactions, inventories, possession limit changes, and measurement data as well as names, addresses, and phone numbers of the appropriate on-plant as well as NRC personnel. The same data combined with inspection results can aid in the investigation and possible recovery of material which appears to be missing.

The MAC module performs a comparison between the existing inventories at each facility with that facility's authorized possession limit to detect conflicts.

The transaction and inventory data collected by MAC enables it to report the required monthly data to the IAEA in a form controlled and validated by NRC. The U.S. must comply with IAEA reporting requirements. The basic IAEA reporting requirements are set forth in INFCIRC 153 and modified by the specific U.S.-IAEA agreements still under negotiation. These requirements are that Inventory Change Reports (ICR) be reported within 30 days of the end of the month in which the change occurred and that Physical Inventory Listings (PIL) be reported within 30 days of the physical inventory. Both the ICRs and PILs are on the Material Balance Area (MBA)/Inventory Control Area (ICA) level in terms of location and

on the "batch" level in detail. All ICRs and PILs must be verifiable. In addition to the ICRs and PILs, Material Balance Reports (MBR) must be submitted to IAEA. MBRs provide overall balances for all types of nuclear material for the specific MBA in question.

Although the increased detail of the reported data required by the IAEA (and for effective safeguards by the NRC) increases the reporting burden of the licensee, the further burden of reporting to the IAEA and interacting with the IAEA will be performed by MAC. The data reported to the IAEA will also be reported to the licensee for his records. By doing this, the licensee knows what has been reported and he can point out any errors and inconsistencies in the data, thus providing still another quality assurance check on the data in ISIS.

The Material Accounting Module provides summary data to NRC Headquarters as well as the regions to provide the basic materials accounting safeguards supporting role. The variety of output records and the IAEA level of input reporting provides NRC with the ability to meet its regulatory needs without forcing a level of reporting detail that overburdens the licensee and leads to quality-assurance problems.

ISIS will, as a general capability, provide system audits for all transactions made against the ISIS data base. This general capability satisfies a MAC requirement to provide an audit trail for all SNM inventory changes. ISIS provides the many levels of data security required by the data in the MAC portion of ISIS.

2.2 CURRENT OR PROJECTED INFORMATION NEEDS

NRC's material accounting safeguards needs have and will basically remain the same. What has changed has been an increase in the number of plants involved and the level of detail and timeliness of the data reported. Projections of the regulatory environment assume that the level of detail of reporting will be at least sufficient to support the IAEA requirements at all plants, and that the timeliness of reporting will be on a daily or as-generated basis with limits on frequency rather than fixed dates. These reporting requirements require changes in the regulations and addenda to the licenses.

Transaction reporting to ISIS will be required on a daily basis. While this may seem to be an increased burden, it is projected that by the 1980's computation facilities will be available in all but the smallest plants for at least process control if not also for measurement and inventory control. It should pose no difficulty for a licensee to define a "close of working day" and report all transactions for that day directly (computer to computer perhaps) to MAC by midnight of that day (EST). These reporting requirements may be made site-dependent in order to take into account the type of facility and volume of daily

transaction data. These data can be used by NRC in evaluating the daily trends in SNM movement and data on current inventories in the case of actual threats. Up-to-date inventory data can also be generated for use by inspectors. The daily transaction data may be reflected to the licensee for corrections and to provide him with a record of the data MAC has about his plant. This will help to eliminate a variety of error sources and ensure more complete and careful reporting.

Data for the current Material Accounting System (NMMSS) is gathered on DOE/NRC Forms 741 and 742. The 741 transaction form will be used to report all the items in Table 2. The 742 Materials Status Report will be replaced by the MUF Transaction Report on the inventory transaction level of detail required by the IAEA for each plant (or by the NRC for plants not reporting to the IAEA). This requires changes in the regulations and in the licenses (to change the material accounting plan). Many of the data elements on the transaction report may remain the same to support the data requirements of NMMSS.

Some additional data elements will have to be added to identify the type of transaction, LEU owner, and transportation plans. The regulation and license changes involved will be more to effect timeliness and level of detail than to generate new sources of data.

3.0 RELATION OF MAC TO EXISTING NRC SYSTEMS

The safeguards material accounting function is presently performed by NMMSS and the Safeguards Status Report Systems. Functionally, MAC will absorb all of the material accounting functions of these two systems as well as elaborating on some of them. ISIS through MAC will provide easier online access to the data base for both headquarters and the regions than can be provided by NMMSS due to the intermingling of the defense-related DOE data. The improved timeliness and direct reporting of the data by the licensees will remove the need for data-gathering at the regional level.

MAC will interface with NMMSS because of the need to support transactions between licensees and DOE contractors and DOE accounts. The interface will also allow simultaneous updating of both data bases for such things as new RIS codes, address changes, etc. MAC will also be the U.S. interface between the licensees and the IAEA.

4.0 NRC OFFICES INVOLVED IN MAC

4.1 REPORT USERS

The users of MAC will be the users of existing NMMSS and Safeguards Status Report Systems. These include NRC Headquarters and Regional Offices of Inspection and Enforcement and the Headquarters Offices of Nuclear Material Safety and Safeguards, Standards Development and Nuclear Regulatory Reseach.

During the course of determining information requirements, the comment was made repeatedly by NRC managers in all of the above-mentioned offices that they needed more timely and accurate SNM accounting data than they were getting (see Section 4.2.4 in Phase I Report). While it will involve changes in regulations to increase licensee reporting frequency, the MAC module of ISIS is intended to satisfy this and related perceptions of NRC managers' needs for SNM accounting data.

4.2 INPUT RESPONSIBILITIES

Input data for MAC will be generated by the licensees in the form of Transaction Reports.

4.3 DATA QUALITY

Quality Assurance of the data will be the responsibility of part of the operating group for ISIS. Much of the QA will be handled by feedback of the input data for confirmation by the submitter. Response time on feedback should be a function of the level of automation at that facility and the volume of transactions from that facility.

4.4 ACCESS CONTROL

Access to output reports from MAC will be controlled by the office in charge of ISIS.

5.0 MODULE DATA BASE

Figure 5.1 shows the forty-one (41) constructs which are accessed to produce the MAC reports. The MAC constructs store information about nuclear materials shipments and inventories. The MAC constructs maintain the information which is currently reported on NRC forms 741 and 742.

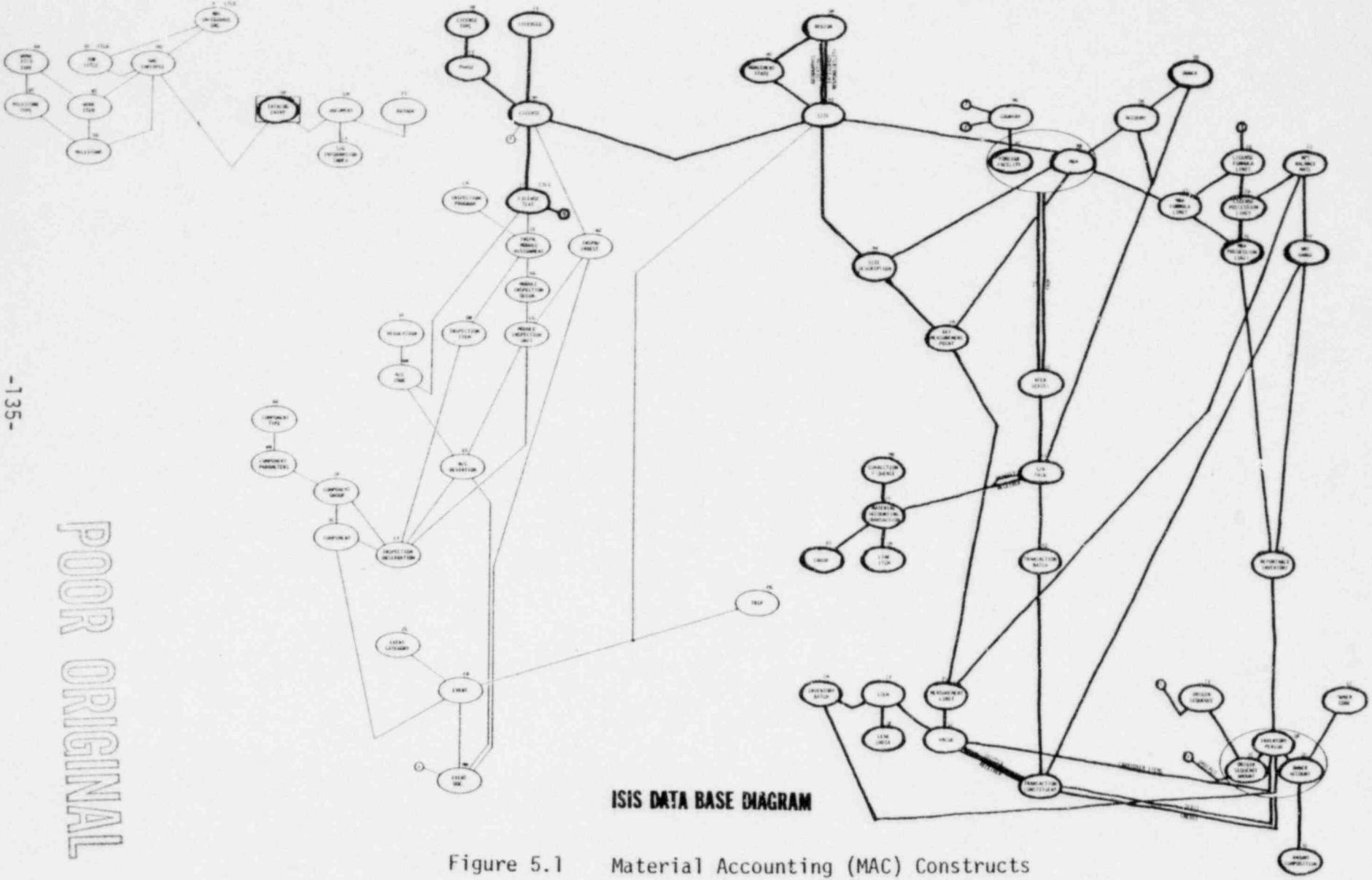


Figure 5.1 Material Accounting (MAC) Constructs

6.0 OUTPUT REPORTS AND INPUT FORMS

6.1 LIST OF OUTPUT REPORTS

Report Number	Report Title
R0399	List of RIS Numbers
R0742	List of NRC Licensees by Region
R0451	Book Balance by Region
R6549	Current Book Balance by License
R4250	Historical Physical Inventory by MBA
R8662	Dated Book Balance by License
P5681	Detailed Licensee Inventory by MBA
P7172	Inventory Differences by MBA
R2743	Inventory Difference Summary by Region
R0131	Historical Inventory Difference by MBA
R6655	Shipper and Receiver Transaction Values by Facility
R7963	Historical Facility Shipper-Receiver Differences (SRD)
R2906	Sealed Source Locations
R3107	Reporting Errors
R3479	MBA Possession Limit Violations
R5280	General Possession Limit Violations
R2565	Unresolved Transaction Errors
R8408	Random Sample of Transactions
R7009	Facility-Facility Transaction Summary
R8776	Facility-Internal MBA-MBA Transactions
R4846	Open Transactions
R7254	Late Transaction Report
R2891	Summary List of On-Site Gains and Losses
R1992	Five Year Shipment or Receipt Summary
R9204	IAEA Inventory Change Report
R1694	IAEA Physical Inventory Listing
R6864	IAEA Material Balance Report
R3378	Cumulative Inventory Difference Report
R6282	Transaction Analysis Report
R9975	Transaction Limit of Error Report
R4621	DOE Material by Licensee
R2390	Material Accounting Transactions by Owner
R1501	Material Origin Book Balance
R5877	Country Listing by Origin Sequence
R3699	Location and Amt of Matl of Specified Origin Seq.
R2615	Location of Matl of Specified Country in Origin Seq.

6.2 LIST OF INPUT FORMS

Form Number	Form Title
F1498	Material Accounting Transaction Form
F3264	Physical Inventory Reporting Form
F1115	Transaction Update Form
F5994	Value Update Form
F1112	SNM Owner Identification
F1113	Occurrence of a Leak Check
F8257	Licensee Update Form
F5360	License Update Form
F2000	License Text Update Form
F2126	License Type and Phase Update Form
F5535	License Possession Limit Update Form
F5941	MBA Formula Limit Update Form
F0547	Site Description Entry
F4797	Material Control Information Entry
F0237	Agreement State Update Form
F9448	Country Generic Data
F3784	Origin Sequence Update Form
F0985	Foreign Facility Update Form

TITLE

LIST OF RIS NUMBERS

PURPOSE

THIS REPORT WILL LIST ALL DOMESTIC RIS NUMBERS MAINTAINED BY ISIS. THE REPORT WILL BE OPTIONAL GROUPED ACCORDING TO RIS STATUS, REGION, STATE, S/G GROUP, OWNER, OR LICENSE.

FREQUENCY: QUARTERLY OR UPON REQUEST (5Q/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 200 PAGES

PARAMETERS

STATUS (P1)
VALUES = "ALL" OR "ACTIVE ONLY"

SORT 1 (P2)

SORT 2 (P3)

SORT 3 (P4)

VALUES FOR P2 - P4 ARE, IN DESIRED ORDER OF SORT:
"RIS"
"S/G" OR "GEOGRAPHIC REGION" (ONE OR THE OTHER)
"STATE"
"STATUS"
"OWNER"
"DOCKET NUMBER"
"LICENSE NUMBER"
"SAFEGUARDS GROUP"
"OWNER CITY"

SELECTION

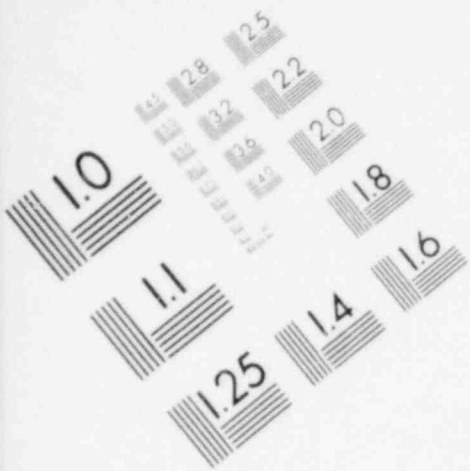
SELECT
ACCOUNT IDS (TMS)
WHERE IF
STATUS (P1)
IS EQUAL TO "ACTIVE"
RIS STATUS CODE (TM1604)
IS EQUAL TO "ACTIVE"
ELSE SELECT ALL
ACCOUNT IDS (TMS)

THEN VIA
MAY HAVE AN OWNER (TMVD)

OWNER (VD)

THEN VIA
INCLUDES MATL BALANCE AREAS (TMRB)

MATL BAL AREAS (RBS)
AND FOR EACH



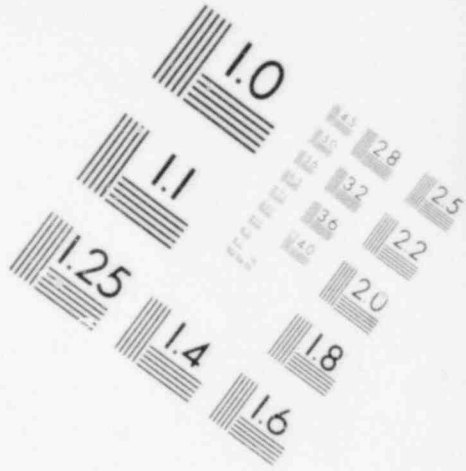
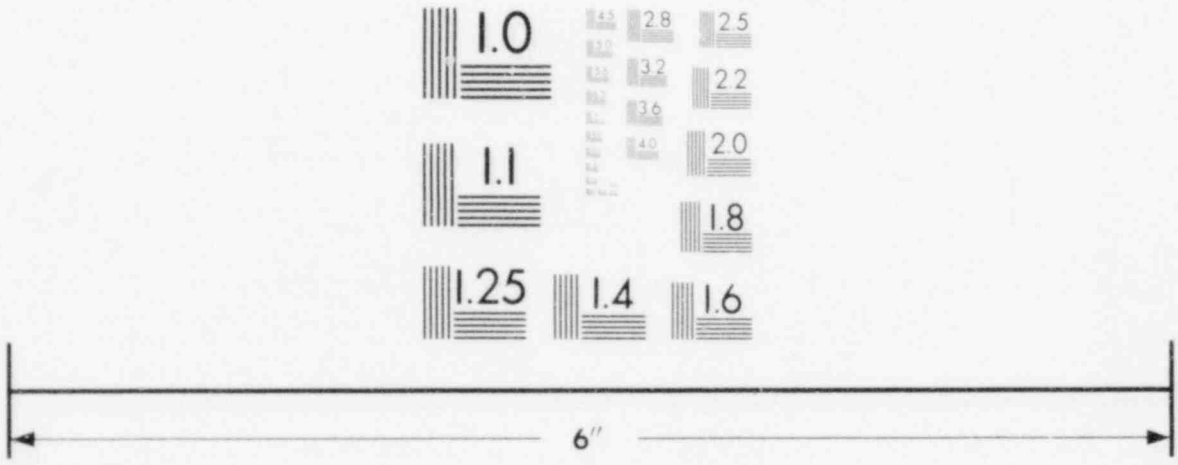
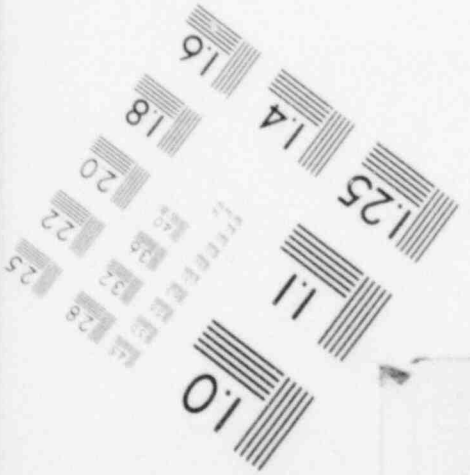
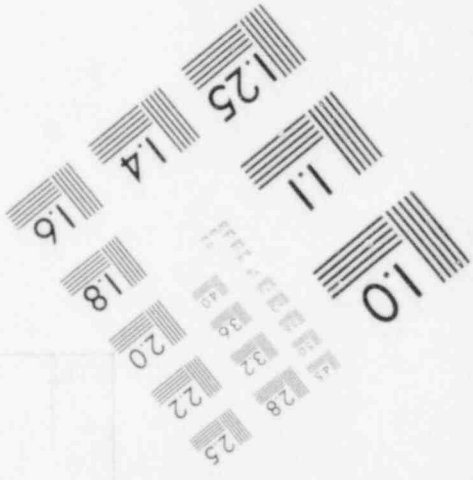


IMAGE EVALUATION
TEST TARGET (MT-3)



MICROCOPY RESOLUTION TEST CHART





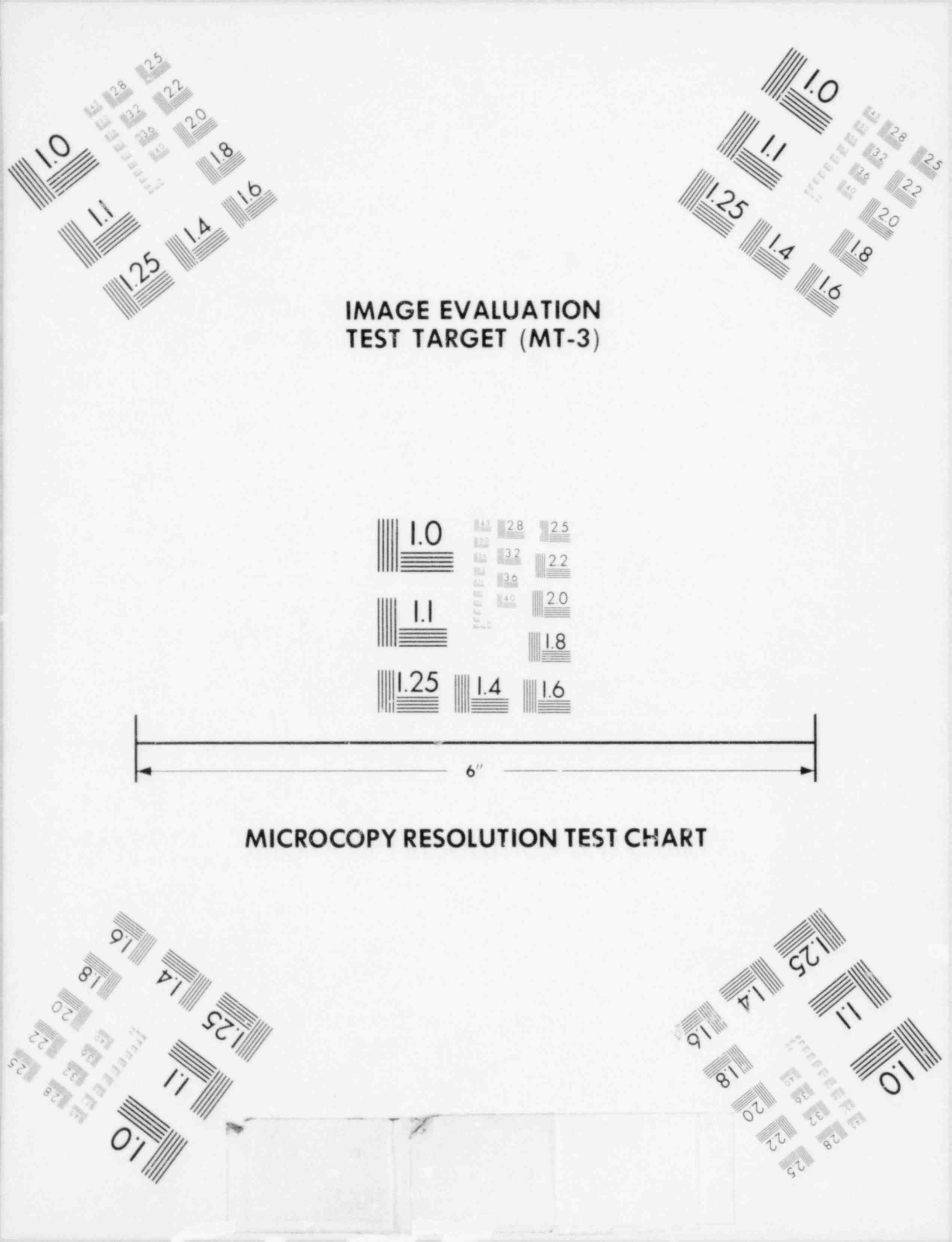


IMAGE EVALUATION
TEST TARGET (MT-3)
1.0
1.1
1.25
1.4
1.6
2.8
2.5
3.2
2.2
3.6
2.0
4.0
1.8
6"
MICROCOPY RESOLUTION TEST CHART

```
1) VIA
     IS IN A SITE                                                    (RBMX   )
  SELECT THE CORRESPONDING
     SITE                                                            (MX     )
  THEN VIA
     IS DESCRIBED BY SITE DESCRIPTIONS                               (MXMV   )

     SITE DESCRIPTION                                                (MV     )
             OF LEVEL 1 IN CTLG HIERARCHY
   THEN VIA
     HAS S/G RESPONSIBILITY TO REGION                                (MXSMS  )

     REGION                                                          (SM     )
             THEN VIA
     IS GEOGRAPHICALLY LOCATED IN REGION                             (MXSMG  )

     REGION                                                          (SM     )

2) VIA
     HAS MBA FORMULA LIMITS                                          (RBCS   )
  SELECT THE ASSOCIATED
     MBA FORMULA LIMITS                                              (CSS    )
  AND FOR EACH, VIA
     IS DEFINED WITHIN LICENSE FORMULA LIMIT                         (CSFB   )
  WHICH
     IS DEFINED IN A LICENSE TEXT                                    (FBZT   )
  WHICH
     IS OWNED BY LICENSE                                             (ZTNH   )
  THE CORRESPONDING
     LICENSE                                                         (NH     )

DISPLAY
-------

LEVEL 1
   DEPENDING ON P2, ONE OF THE FOLLOWING:
     REPORTING IDENTIFICATION SYMBOL                                 (TM6248)
             OR
     RIS STATUS CODE                                                 (TM1864)
             OR
     REGION NUMBER                                                   (SM2838)
             VIA
     HAS S/G RESPONSIBILITY TO REGION                                (MXSMS  )
             OR
     REGION NUMBER                                                   (SM2838)
             VIA
     IS GEOGRAPHICALLY LOCATED IN REGION                             (MXSMG  )
             OR
     STATE                                                           (MX2798)
             OR
     SAFEGUARDS GROUP                                                (MX1276)
             OR
     OWNER NAME                                                      (VD2728)
             OR
     DOCKET NUMBER                                                   (NH2112)
             OR
     LICENSE NUMBER                                                  (NH2655)
             OR
     OWNER CITY                                                      (VD3788)
```

LEVEL 2
  ONE IN THE ABOVE LIST, DEPENDING ON P3
LEVEL 3
  ONE IN THE ABOVE LIST, DEPENDING ON P4
LEVEL 4
  ALL OF THE FOLLOWING EXCEPT LEVEL 1, 2, OR 3 DATA
    REPORTING IDENTIFICATION SYMBOL (TM6248)

    RIS STATUS CODE (TM1864)

    RIS TYPE (TM5731)

    IAEA SUFFIX (1 CHARACTER) (TM6842)

    IAEA MBA TYPE (TM1243)

    RIS ADDRESS (IF ANY) (TM1566)

    OWNER NAME (VD2728)

    OWNER CITY (VD3788)

LEVEL 5
  ALL OF THE FOLLOWING EXCEPT LEVEL 1, 2, OR 3 DATA
    RIS SUFFIX (RB3520)

    RESPONSIBLE POSITION TITLE (RB9801)

    MBA RESPONSIBLE INDIVIDUAL NAME (RB8459)

    INDIVIDUALS ADDRESS (RB4851)

    INDIVIDUALS PHONE NUMBER (RB9108)

    FACILITY NAME (MX3 30)

    FACILITY ADDRESS (MX8349)

    REGION NUMBER (SM2838)

    ZIP CODE AREA IN WHICH SITE IS LOCATED (MX1027)

    CITY (MX2304)

    LATITUDE/LONGITUDE (MX1885)

    CORPORATE OWNERSHIP (MX9042)

    CORPORATE ADDRESS (MX7139)

    FACILITY TYPE (MX3168)

    MAT ACCOUNTING CONTACT NAME (MX9515)

    PLANT PHONE NO-MAT ACCOUNTING CONTACT (MX6325)

    HOME PHONE NO-MAT ACCOUNTING CONTACT (MX9240)

    PHYS SECURITY CONTACT NAME (MX1914)

PLANT PHONE NO-PHYS SECURITY CONTACT (MX3487)

HOME PHONE NO-PHYS SECURITY CONTACT (MX3652)

S/G CONTACT NAME (MX2717)

PLANT PHONE NO-S/G CONTACT (MX8283)

HOME PHONE NO-S/G CONTACT (MX2519)

OVERALL CONTACT NAME (MX4246)

PLANT PHONE NO,OVERALL MBA CONTACT (MX3872)

HOME PHONE NO,OVERALL MBA CONTACT (MX4070)

OTHER CONTACT (MX9053)

PLANT PHONE NO-OTHER CONTACT (MX6743)

HOME PHONE NO-OTHER CONTACT (MX9185)

CENTRAL GUARD STATION PHONE NO (MX1474)

ICC IDENTIFICATION NUMBER (MX2762)

MOST RECENT GUARD HIRE DATE (MX0742)

SAFEGUARDS GROUP (MX1276)

STATE (MX2798)

AND FROM FIRST LEVEL IN CTLG HIERARCHY:

NUMBER OF MBAS (MV1182)

NUMBER OF ICAS (MV4536)

LEVEL 6

ALL OF THE FOLLOWING EXCEPT LEVEL 1, 2, OR 3 DATA

DOCKET NUMBER (NH2112)

LICENSE NUMBER (NH2655)

TITLE

LIST OF NRC LICENSEES BY REGION

PURPOSE

THIS REPORT WILL LIST THE NRC LICENSEES WITH ONE OR MORE SITES GEOGRAPHICALLY LOCATED IN A PARTICULAR REGION. THE REGION HAVING SAFEGUARDS RESPONSIBILITY WILL ALSO BE REPORTED.

FREQUENCY: AS REQUIRED (50/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 200 PAGES

PARAMETERS

REGION OF INTEREST	TYPE LENGTH	FIXED TEXT 1		(P1)
SORT OPTION VALUES = "SITE" "LICENSEE" OR "LICENSE TYPE"				(P2)

SELECTION

SELECT				
REGION				(SM)
WHERE				
REGION NUMBER				(SM2838)
EQUAL				
REGION OF INTEREST	TYPE LENGTH	FIXED TEXT 1		(P1)
THEN VIA				
IS GEOGRAPHIC LOCATION OF SITES				(SMMXG)
SITES				(MXS)
THEN 1) VIA				
HAS MATL BALANCE AREAS				(MXRB)
MATL BAL AREAS				(RBS ,
AND VIA				
IS INCLUDED IN AN ACCOUNT ID				(RBTM)
THE CORRESPONDING				
ACCOUNT ID				(TM)
2) VIA				
CROSS REF LICENSE				(MXNH)
THE ASSOCIATED				
LICENSES				(NHS)
AND A) VIA				
APPLIES TO PHASE				(NHKV)
THE CORRESPONDING				
PHASE				(KV)

```
    THEN VIA
    FURTHER DEFINES LICENSE TYPE                                (KVVB   )

    LICENSE TYPE                                                (VB     )

 AND B) VIA
    APPLIES TO LICENSEE                                         (NHFV   )
 THE CORRESPONDING
    LICENSEE                                                    (FV     )

3) VIA
    HAS S/G RESPONSIBILITY TO REGION                            (MXSMS  )
 THE CORRESPONDING
    REGION                                                      (SM     )

4) VIA
    IS IN AGREEMENT STATE                                       (MXMS   )

    AGREEMENT STATE                                             (MS     )

DISPLAY
-------
LEVEL 1
    REGION NUMBER                                               (SM2838)

    REGION LOCATION                                             (SM2123)

  IF P2 = "SITE" THEN
LEVEL 2
    FACILITY NAME                                               (MX3850)

    LATITUDE/LONGITUDE                                          (MX1885)

    NAME OF STATE                                               (MS4389)

    DATE OF AGREEMENT                                           (MS5918)

    DATE OF LAST AMENDMENT                                      (MS9504)

    AGREEMENT REFERENCE                                         (MS8261)

    COMMENTS                                                    (MS8019)

  AND DATA VIA
    HAS S/G RESPONSIBILITY TO REGION                            (MXSMS  )

    REGION NUMBER                                               (SM2838)

LEVEL 3
    REPORTING IDENTIFICATION SYMBOL                             (TM6248)

    RIS SUFFIX                                                  (RB3520)

LEVEL 3
    CORPORATE NAME OF LICENSEE                                  (FV0396)

    CORPORATE ADDRESS                                           (FV2706)
```

```
    DOCKET NUMBER                                                (NH2112)

    LICENSE NUMBER                                               (NH2655)

    LICENSE TYPE ID                                              (VB4350)

    TITLE OF LICENSE TYPE                                        (VB0374)

    TITLE OF PHASE                                               (KV3597)

  ELSE IF P2 = "LICENSEE"  THEN
LEVEL 2
    CORPORATE NAME OF LICENSEE                                   (FV0396)

    CORPORATE ADDRESS                                            (FV2706)

LEVEL 3
    DOCKET NUMBER                                                (NH2112)

    LICENSE NUMBER                                               (NH2655)

    LICENSE TYPE ID                                              (VB4350)

    TITLE OF LICENSE TYPE                                        (VB0374)

    TITLE OF PHASE                                               (KV3597)

  ELSE IF P2 = "LICENSE TYPE"  THEN
LEVEL 2
    LICENSE TYPE ID                                              (VB4350)

    TITLE OF LICENSE TYPE                                        (VB0374)

LEVEL 3
    DOCKET NUMBER                                                (NH2112)

    LICENSE NUMBER                                               (NH2655)

    TITLE OF PHASE                                               (KV3597)

    CORPORATE NAME OF LICENSEE                                   (FV0396)

    CORPORATE ADDRESS                                            (FV2706)

  AND IF P2 = "LICENSEE" OR "LICENSE TYPE" THEN
LEVEL 4
    FACILITY NAME                                                (MX3850)

    LATITUDE/LONGITUDE                                           (MX1885)

    NAME OF STATE                                                (MS4389)

    DATE OF AGREEMENT                                            (MS5918)

    DATE OF LAST AMENDMENT                                       (MS9504)

    AGREEMENT REFERENCE                                          (MS8261)

    COMMENTS                                                     (MS8019)
```

AND VIA
HAS S/G RESPONSIBILITY TO REGION (MXSMS)

REGION NUMBER (SM2838)

LEVEL 5
REPORTING IDENTIFICATION SYMBOL (TM6248)

RIS SUFFIX (RB3520)

TITLE

BOOK BALANCE BY REGION

PURPOSE

THIS REPORT WILL LIST BOOK BALANCE, AS OF A SPECIFIED DATE, FOR EACH NRC BALANCE MATERIAL IN EACH REGION. PART A OF THE REPORT IS BY GEOGRAPHICAL REGION WHILE PART B IS BY SAFEGUARDS REGION.

FREQUENCY: UPON REQUEST (150/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

DESIRED DATE	TYPE	DATE	(P1)
	LENGTH	6	

DEFAULT IS CURRENT DATE

CALCULATED RESULTS

TOTAL EFFECTIVE KG	TYPE	FIXED TEXT	(C1)
	LENGTH	9	

USE AN NRC PROVIDED ALGORITHM

CURRENT MATL ELEMENT WT (C2)
FUNCTION OF
DATA FROM THE PREVIOUS INVENTORY PERIOD
BOOK BALANCE - ELEMENT WEIGHT (QP4790)
AND
DATA ASSOCIATED WITH THE DESIRED INVENTORY PERIOD
MEASURED ELEMENT WEIGHT (SZ4504)

NONMEASURED ELEMENT WEIGHT (FT4459)

CURRENT MATL ISOTOPE WT (C3)
FUNCTION OF
DATA FROM THE PREVIOUS INVENTORY PERIOD
BOOK BALANCE - ISOTOPE WEIGHT (QP4284)
AND
DATA ASSOCIATED WITH THE DESIRED INVENTORY PERIOD
MEASURED ISOTOPIC WEIGHT (SZ3294)

NONMEASURED ISOTOPE WEIGHT (FT3535)

ESTIMATED COMPOSITION ELEMENT WT (C4)
FUNCTION OF
DATA FROM THE PREVIOUS INVENTORY PERIOD
BOOK BALANCE - ELEMENT WEIGHT (QP4790)

ELEMENT WEIGHT (KL3162)
AND THE CALCULATED RESULT
CURRENT MATL ELEMENT WT (C2)

ESTIMATED COMPOSITION ISOTOPE WT (C5)
FUNCTION OF

```
    DATA FROM THE PREVIOUS INVENTORY PERIOD
    BOOK BALANCE - ISOTOPE WEIGHT                                  (QP4284)

    ISOTOPE WEIGHT                                                 (KL3272)
     AND THE CALCULATED RESULT
    CURRENT MATL ISOTOPE WT                                        (C3     )

SELECTION
---------
SELECT
    REPORTABLE INVENTORY                                           (ZV     )
 AND
1) VIA
    IS DEFINED BY AN MBA POSS LIMIT                                (ZVXC   )
 THE CORRESPONDING
    MBA POSSESSION LIMIT                                           (XC     )
 AND VIA
    APPLIES TO MBA FORMULA LIMIT                                   (XCCS   )
 THE CORRESPONDING
    MBA FORMULA LIMIT                                              (CS     )
 AND VIA
    IS DEFINED FOR AN MBA                                          (CSRB   )
 THE CORRESPONDING
    MATERIAL BAL AREA                                              (RB     )
 AND VIA
    IS IN A SITE                                                   (RBMX   )
 THE CORRESPONDING
    SITE                                                           (MX     )
 AND
A)  VIA
    IS GEOGRAPHICALLY LOCATED IN REGION                            (MXSMG  )
 THE CORRESPONDING
    REGION                                                         (SM     )

B)  VIA
    HAS S/G RESPONSIBILITY TO REGION                               (MXSMS  )
 THE CORRESPONDING
    REGION                                                         (SM     )

2) VIA
    IS DEFINED BY AN NRC RANGE                                     (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                      (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                          (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                           (ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                           (ZV     )

1) TO GET THE BALANCE ON HAND AT THE BEGINNING OF THE APPLICABLE PERIOD
VIA
    HAS ASSOCIATED INVENTORY PERIODS                               (ZVQP   )
 SELECT THE LATEST
    INVENTORY PERIOD                                               (QP     )
 WHERE
    DATE                                                           (QP8085)
 IS LESS THAN OR EQUAL TO
```

```
   DESIRED DATE                                  TYPE     DATE          (P1    )
                                                 LENGTH   6
AND WITHIN THIS, VIA
   HAS OWNER AMOUNTS                                                   (QPDS  )

   MAY HAVE AMOUNT/COMPOSITIONS                                        (DSKL  )
SELECT ALL
   AMOUNT/COMPOSITION                                                  (KL    )

2) TO GET THE ADDITIONS WHICH OCCURRED DURING THE APPLICABLE PERIOD
SELECT THE SUBSEQUENT
   INVENTORY PERIOD                                                    (QP    )
AND VIA
   CROSS REF CREDITED BY TRANSACTION CONSTI                            (QPGLC )
SELECT
   TRANS CONSTITUENT                                                   (GL    )
WHERE VIA
   IS A PART OF TRANSACTION BATCH                                      (GLKQ  )
WHICH
   IS IDENTIFIED WITH ONE S/R PAIR                                     (KQKX  )

   DATE RECEIVED                                                       (KX1402)
IS LESS THAN OR EQUAL
   DESIRED DATE                                  TYPE     DATE          (P1    )
                                                 LENGTH   6

THEN, FOR EACH SELECTED
   TRANS CONSTITUENT                                                   (GL    )
IF
   TYPE OF QUANTITY                                                    (GL1346)
IS 'MEASUREMENT', VIA
   MAY HAVE A RECEIVER MEASURED VALUE                                  (GLSZR )
SELECT
   VALUE                                                               (SZ    )
OTHERWISE, THE SUBCONSTRUCT
   NONMEASUREMENT                                                      (FT    )
CONTAINS THE REQUIRED DATA.
3) TO GET THE SUBTRACTIONS WHICH OCCURRED DURING THE APPLICABLE PERIOD,
STILL USING THE SUBSEQUENT
   INVENTORY PERIOD                                                    (QP    )
VIA
   CROSS REF DEBITED BY TRANSACTION CONSTIT                            (QPGLD )
SELECT
   TRANS CONSTITUENT                                                   (GL    )
WHERE VIA
   IS A PART OF TRANSACTION BATCH                                      (GLKQ  )
WHICH
   IS IDENTIFIED WITH ONE S/R PAIR                                     (KQKX  )

   DATE SHIPPED                                                        (KX3205)
IS LESS THAN OR EQUAL
   DESIRED DATE                                  TYPE     DATE          (P1    )
                                                 LENGTH   6

THEN, FOR EACH SELECTED
   TRANS CONSTITUENT                                                   (GL    )
IF
   TYPE OF QUANTITY                                                    (GL1346)
IS 'MEASUREMENT', VIA
```

```
    MAY HAVE A SHIPPER MEASURED VALUE                                  (GLSZS )
 SELECT
    VALUE                                                              (SZ    )
 OTHERWISE, THE SUBCONSTRUCT
    NONMEASUREMENT                                                     (FT    )
 CONTAINS THE REQUIRED DATA.
DISPLAY
-------
LEVEL 1
IN ASCENDING ORDER
    REGION NUMBER                                                      (SM2838)

NOTE:  FOR PART A, USE GEOGRAPHICAL REGION
       FOR PART B, USE SAFEGUARDS RESPONSIBLE REGION
    DESIRED DATE                          TYPE     DATE              (P1    )
                                          LENGTH   6

    TOTAL EFFECTIVE KG                    TYPE     FIXED TEXT        (C1    )
                                          LENGTH   9

LEVEL 2
    ELEMENT NAME                                                       (ZJ1115)

    ISOTOPE NUMBER                                                     (ZJ0356)

    SUM OF
    CURRENT MATL ELEMENT WT                                            (C2    )

    SUM OF
    CURRENT MATL ISOTOPE WT                                            (C3    )

LEVEL 3
    STANDARD MATERIAL TYPE CODE                                        (RV2908)

    BEGINNING ENRICHMENT                                               (RV2567)

    ENDING ENRICHMENT                                                  (RV2964)

    CURRENT MATL ELEMENT WT                                            (C2    )

    CURRENT MATL ISOTOPE WT                                            (C3    )

LEVEL 4
    INVENTORY COMPOSITION CODE                                         (KL4944)

    ESTIMATED COMPOSITION ELEMENT WT                                   (C4    )

    ESTIMATED COMPOSITION ISOTOPE WT                                   (C5    )

LEVEL 2
IN ASCENDING ORDER:
    STATE                                                              (MX2798)

    TOTAL EFFECTIVE KG                    TYPE     FIXED TEXT        (C1    )
                                          LENGTH   9

LEVEL 3
    ELEMENT NAME                                                       (ZJ1115)
```

```
    ISOTOPE NUMBER                                                  (ZJ0356)

    SUM OF
    CURRENT MATL ELEMENT WT                                         (C2     )

    SUM OF
    CURRENT MATL ISOTOPE WT                                         (C3     )

LEVEL 4
    STANDARD MATERIAL TYPE CODE                                     (RV2908)

    BEGINNING ENRICHMENT                                            (RV2567)

    ENDING ENRICHMENT                                               (RV2964)

    CURRENT MATL ELEMENT WT                                         (C2     )

    CURRENT MATL ISOTOPE WT                                         (C3     )

LEVEL 5
    INVENTORY COMPOSITION CODE                                      (KL4944)

    ESTIMATED COMPOSITION ELEMENT WT                                (C4     )

    ESTIMATED COMPOSITION ISOTOPE WT                                (C5     )

LEVEL 3
IN ASCENDING ORDER:
    CITY                                                            (MX2304)

    TOTAL EFFECTIVE KG                  TYPE    FIXED TEXT          (C1     )
                                        LENGTH  9

LEVEL 4
    ELEMENT NAME                                                    (ZJ0356)

    ISOTOPE NUMBER                                                  (ZJ0356)

    SUM OF
    CURRENT MATL ELEMENT WT                                         (C2     )

    SUM OF
    CURRENT MATL ISOTOPE WT                                         (C3     )

LEVEL 5
    STANDARD MATERIAL TYPE CODE                                     (RV2908)

    BEGINNING ENRICHMENT                                            (RV2567)

    ENDING ENRICHMENT                                               (RV2964)

    CURRENT MATL ELEMENT WT                                         (C2     )

    CURRENT MATL ISOTOPE WT                                         (C3     )

LEVEL 6
    INVENTORY COMPOSITION CODE                                      (KL4944)

    ESTIMATED COMPOSITION ELEMENT WT                                (C4     )
```

ESTIMATED COMPOSITION ISOTOPE WT (C5)

NOT PRINTED
SUM OF
ELEMENT WEIGHT (KL3162)

ISOTOPE WEIGHT (KL3272)

LEVEL 7
NOT PRINTED
ELEMENT WEIGHT (KL3162)

ISOTOPE WEIGHT (KL3272)

TITLE

CURRENT BOOK BALANCE BY LICENSE

PURPOSE

THIS REPORT WILL LIST THE CURRENT BOOK BALANCE OF EACH NRC BALANCE MATERIAL UNDER A PARTICULAR LICENSE. IF BALANCE ON A SPECIFIED DATE IS DESIRED, ISIS REPORT R8662 SHOULD BE USED.

FREQUENCY: WEEKLY OR UPON REQUEST (200/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

DESIRED LICENSE NUMBER	TYPE LENGTH	FIXED TEXT 13	(P1)
IF NOT SPECIFIED, ALL LICENSES WILL BE REPORTED			
ID METHOD			(P2)
VALUES="LICENSE" OR "DOCKET"			

CALCULATED RESULTS

TOTAL EFFECTIVE KG	TYPE LENGTH	FIXED TEXT 9	(C1)

USE AN NRC PROVIDED ALGORITHM

SELECTION

SELECT
LICENSE (NH)
AND VIA
APPLIES TO PHASE (NHKV)
THE CORRESPONDING
PHASE (KV)
AND VIA
FURTHER DEFINES LICENSE TYPE (KVVB)
THE CORRESPONDING
LICENSE TYPE (VB)
WHERE
IF P2 IS EQUAL TO "LICENSE"
LICENSE NUMBER (NH2655)
EQUAL
DESIRED LICENSE NUMBER TYPE LENGTH FIXED TEXT 13 (P1)

ELSE IF P2 IS EQUAL TO "DOCKET"
DOCKET NUMBER (NH2112)
EQUAL
DESIRED LICENSE NUMBER TYPE LENGTH FIXED TEXT 13 (P1)

THEN VIA
HAS LICENSE TEXTS (NHZT)

LICENSE TEXTS (ZTS)

```
THEN VIA
    MAY SPECIFY LICENSE FORMULA LIM  S                    (ZTFB   )

    LICENSE FORMULA LIMIT                                 (FBS    )

THEN VIA
    ENCOMPASSES MBA FORMULA LIMITS                        (FBCS   )

    MBA FORMULA LIMITS                                    (CSS    )
 AND VIA
    IS DEFINED FOR AN MBA                                 (CSRB   )
 THE CORRESPONDING
    MATERIAL BAL AREA                                     (RB     )
 AND
1) VIA
    IS IN A SITE                                          (RBMX   )
 THE CORRESPONDING
    SITE                                                  (MX     )
 2) VIA
    IS INCLUDED IN AN ACCOUNT ID                          (RBTM   )
 THE CORRESPONDING
    ACCOUNT ID                                            (TM     )

THEN FOR EACH SELECTED
    MBA FORMULA LIMIT                                     (CS     )
 VIA
    IS IN TERMS OF MBA POSS LIMITS                        (CSXC   )

    MBA POSSESSION LIMITS                                 (XCS    )

THEN VIA
    DEFINES REPORTABLE INVENTORIES                        (XCZV   )

    REPORTABLE INVENTORIE                                 (ZVS    )
 AND VIA
    IS DEFINED BY AN NRC RANGE                            (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                             (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                 (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                  (ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                  (ZV     )

VIA
    HAS ASSOCIATED INVENTORY PERIODS                      (ZVQP   )
 SELECT THE LATEST
    INVENTORY PERIOD                                      (QP     )

DISPLAY
-------
LEVEL 1
    DOCKET NUMBER                                         (NH2112)

    LICENSE NUMBER                                        (NH2655)

    TITLE OF LICENSE TYPE                                 (VB0374)
```

```
    CURRENT DATE
LEVEL 2
    ELEMENT NAME                                                    (ZJ1115)

    ISOTOPE NUMBER                                                  (ZJ0356)

    MEASUREMENT UNITS                                               (ZJ2017)

LEVEL 3
    FACILITY NAME                                                   (MX3850)

    FACILITY ADDRESS                                                (MX8349)

LEVEL 4
    REPORTING IDENTIFICATION SYMBOL                                 (TM6248)

    RIS SUFFIX                                                      (RB3520)

LEVEL 5
    STANDARD MATERIAL TYPE CODE                                     (RV2908)

    BEGINNING ENRICHMENT                                            (RV2567)

    ENDING ENRICHMENT                                               (RV2964)

    BOOK BALANCE - ELEMENT WEIGHT                                   (WP4790)

    BOOK BALANCE - ISOTOPE WEIGHT                                   (WP4284)

LEVEL 4
    SUM OF
    BOOK BALANCE - ELEMENT WEIGHT                                   (WP4790)

    SUM OF
    BOOK BALANCE - ISOTOPE WEIGHT                                   (WP4284)

LEVEL 3
    SUM OF
    BOOK BALANCE - ELEMENT WEIGHT                                   (WP4790)

    SUM OF
    BOOK BALANCE - ISOTOPE WEIGHT                                   (WP4284)

LEVEL 2
    SUM OF
    BOOK BALANCE - ELEMENT WEIGHT                                   (WP4790)

    SUM OF
    BOOK BALANCE - ISOTOPE WEIGHT                                   (WP4284)

LEVEL 1
    TOTAL EFFECTIVE KG                  TYPE     FIXED TEXT         (C1    )
                                        LENGTH   9
```

TITLE

HISTORICAL PHYSICAL INVENTORY BY MBA

PURPOSE

THIS REPORT WILL PROVIDE A HISTORICAL RECORD OF THE BOOK BALANCE OF SPECIFIED STANDARD MATERIAL TYPES AT A PARTICULAR MBA. IN ADDITION PARTICULAR COMPOSITION CODES CAN BE SPECIFIED.

FREQUENCY: ON DEMAND (50/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

DESIRED RIS	TYPE LENGTH	FIXED TEXT 3	(P1)
DESIRED MBA SUFFIX	TYPE LENGTH	FIXED TEXT 2	(P2)
DESIRED STD MATL TYPE	TYPE LENGTH	FIXED TEXT 2	(P3)
DESIRED COMPOSITION CODE	TYPE LENGTH	FIXED TEXT 2	(P4)
DESIRED LICENSE TYPE			(P5)
DESIRED DOCKET NUMBER			(P6)
REPORT START DATE	TYPE LENGTH	DATE 6	(P7)
REPORT END DATE	TYPE LENGTH	DATE 6	(P8)
PRINT PROJECT DETAILS - Y/N	TYPE LENGTH	FIXED TEXT 1	(P9)

NOTE: FOR THE FIRST SIX PARAMETERS, DEFAULT VALUE IS TO LIST ALL ENTRIES

SELECTION

SELECT
MATERIAL BAL AREA (RB)
WHERE
1)
RIS SUFFIX (RB3520)
EQUALS
DESIRED MBA SUFFIX TYPE FIXED TEXT (P2)
LENGTH 2
AND WHERE
2) VIA
IS INCLUDED IN AN ACCOUNT ID -155- (RBTM)

```
 THE CORRESPONDING
    ACCOUNT ID                                                    (TM      )
 WHERE
    REPORTING IDENTIFICATION SYMBOL                               (TM0248)
 EQUALS
    DESIRED RIS                          TYPE      FIXED TEXT     (P1      )
                                         LENGTH    3

3) VIA
    HAS MBA FORMULA LIMITS                                        (RBCS    )

    MBA FORMULA LIMITS                                            (CSS     )
 AND VIA
    IS DEFINED WITHIN LICENSE FORMULA LIMIT                       (CSFB    )
 THE CORRESPONDING
    LICENSE FORMULA LIMIT                                         (FB      )
 AND VIA
    IS DEFINED IN A LICENSE TEXT                                  (FBZT    )

    IS OWNED BY LICENSE                                           (ZTNH    )
 THE CORRESPONDING
    LICENSE                                                       (NH      )
 WHERE
    DOCKET NUMBER                                                 (NH2112)
 EQUALS
    PRINT PROJECT DETAILS - Y/N          TYPE      FIXED TEXT     (P9      )
                                         LENGTH    1

4) VIA
    APPLIES TO PHASE                                              (NHKV    )

    PHASE                                                         (KV      )
 THEN VIA
    FURTHER DEFINES LICENSE TYPE                                  (KVVB    )

    LICENSE TYPE                                                  (VB      )
 WHERE
    LICENSE TYPE ID                                               (VB4350)
 EQUALS
    REPORT END DATE                      TYPE      DATE           (P8      )
                                         LENGTH    6

THEN FOR EACH SELECTED
    MATERIAL BAL AREA                                             (RB      )
 VIA
    IS IN A SITE                                                  (RBMX    )

    SITE                                                          (MX      )

THEN FOR EACH SELECTED
    MBA FORMULA LIMIT                                             (CS      )
 VIA
    IS IN TERMS OF MBA POSS LIMITS                                (CSXC    )
 SELECT
    MBA POSSESSION LIMITS                                         (XCS     )

THEN VIA
    DEFINES REPORTABLE INVENTORIES                                (XCZV    )
```

```
    REPORTABLE INVENTORY                                          (ZV     )
 AND VIA
    IS DEFINED BY AN NRC RANGE                                    (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                     (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                         (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                          (ZJ     )
 WHERE
    STANDARD MATERIAL TYPE CODE                                   (RV2908)
 EQUALS
    DESIRED STD MATL TYPE                 TYPE      FIXED TEXT    (P3     )
                                          LENGTH    2

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                          (ZV     )
 VIA
    HAS ASSOCIATED INVENTORY PERIODS                              (ZVQP   )

    INVENTORY PERIODS                                             (QPS    )
 WHERE
    DATE                                                          (QP8085)
 IS BOTH
1) GREATER THAN OR EQUAL TO
    DESIRED LICENSE TYPE                                          (P5     )

2) LESS THAN OR EQUAL TO
    DESIRED DOCKET NUMBER                                         (P6     )

THEN VIA
    HAS OWNER AMOUNTS                                             (QPDS   )

    OWNER AMOUNT                                                  (DS     )
 AND VIA
    IS FOR AN OWNER CODE                                          (DSLC   )
 THE CORRESPONDING
    OWNER CODE PROJECT                                            (LC     )

THEN VIA
    MAY HAVE AMOUNT/COMPOSITIONS                                  (DSKL   )

    AMOUNT/COMPOSITION                                            (KL     )
 WHERE
    INVENTORY COMPOSITION CODE                                    (KL4944)
 EQUALS
    DESIRED COMPOSITION CODE              TYPE      FIXED TEXT    (P4     )
                                          LENGTH    2

DISPLAY
-------
IF
    REPORT END DATE                       TYPE      DATE          (P8     )
                                          LENGTH    6
 THEN
LEVEL 1
    LICENSE TYPE ID                                               (V84350)

LEVEL 2
```

```
    DOCKET NUMBER                                                    (NH2112)

    LICENSE NUMBER                                                   (NH2655)

LEVEL 3
    REPORTING IDENTIFICATION SYMBOL                                  (TM6248)

LEVEL 4
    RIS SUFFIX                                                       (RB3520)

    FACILITY NAME                                                    (MX3850)

    FACILITY ADDRESS                                                 (MX8349)

ELSE IF
    PRINT PROJECT DETAILS - Y/N          TYPE     FIXED TEXT         (P9    )
                                         LENGTH   1
 THEN
LEVEL 1
    DOCKET NUMBER                                                    (NH2112)

    LICENSE NUMBER                                                   (NH2655)

    LICENSE TYPE ID                                                  (VB4350)

LEVEL 2
    REPORTING IDENTIFICATION SYMBOL                                  (TM6248)

LEVEL 3
    RIS SUFFIX                                                       (RB3520)

    FACILITY NAME                                                    (MX3850)

    FACILITY ADDRESS                                                 (MX8349)

ELSE IF
    DESIRED RIS                          TYPE     FIXED TEXT         (P1    )
                                         LENGTH   3
 THEN
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                                  (TM6248)

LEVEL 2
    RIS SUFFIX                                                       (RB3520)

    FACILITY NAME                                                    (MX3850)

    FACILITY ADDRESS                                                 (MX8349)

LEVEL 3
    DOCKET NUMBER                                                    (NH2112)

    LICENSE NUMBER                                                   (NH2655)

    LICENSE TYPE ID                                                  (VB4350)

ELSE IF
    DESIRED MBA SUFFIX                   TYPE     FIXED TEXT         (P2    )
```



```
                                         LENGTH   2
```

THEN
LEVEL 1
REPORTING IDENTIFICATION SYMBOL (TM6248)

RIS SUFFIX (RB3520)

FACILITY NAME (MX3850)

FACILITY ADDRESS (MX8349)

LEVEL 2
DOCKET NUMBER (NH2112)

LICENSE NUMBER (NH2655)

LICENSE TYPE ID (V84350)

AND IN ANY CASE
LEVEL 5
ELEMENT NAME (ZJ1115)

ISOTOPE NUMBER (ZJ0356)

MEASUREMENT UNITS (ZJ2017)

STANDARD MATERIAL TYPE CODE (RV2908)

BEGINNING ENRICHMENT (RV2567)

ENDING ENRICHMENT (RV2964)

LEVEL 6
DATE (QP8085)

LEVEL 7
OWNER CODE (LC0693)

LEVEL 8
INVENTORY COMPOSITION CODE (KL4944)

ELEMENT WEIGHT (KL3162)

ISOTOPE WEIGHT (KL3272)

SCRAP PROGRAM (KL0268)

UESA CATEGORY CODE (KL4724)

WEIGHT PERCENT ISOTOPE (KL3052)

ERDA PROJECT (KL0940)

UESA PRODUCTION CODE (KL1929)

LEVEL 7
SUM OF
ELEMENT WEIGHT (KL3162)

SUM OF

ISOTOPE WEIGHT (KL3272)

LEVEL 6
SUM OF
ELEMENT WEIGHT (KL3162)

SUM OF
ISOTOPE WEIGHT (KL3272)

PROCESSING NOTES

THE SELECTION CRITERIA IS SUCH THAT ALL MBA'S ARE SELECTED THAT MEET THE GIVEN INPUT PARAMETERS, TESTED IN CONDITIONS (1), (2), (3), (4). THEREFORE, AFTER CONDITION (4), THOSE MBA'S SELECTED SATISFY THE FIRST FOUR PARAMETERS(P8,P9,P1,P2) IF SPECIFIED.
IN THE DISPLAY SECTION, "IF P- " REFERS TO THE LOWEST LEVEL PARAMETER SPECIFIED. HIGH TO LOW: LICENSE TYPE, DOCKET NUMBER, RIS, MBA.

TITLE

DATED BOOK BALANCE BY LICENSE

PURPOSE

THIS REPORT WILL LIST THE BOOK BALANCE OF EACH NRC BALANCE MATERIAL UNDER A PARTICULAR LICENSE AS OF A SPECIFIED DATE. IF CURRENT BALANCE IS DESIRED, ISIS REPORT R6549 SHOULD BE USED.

FREQUENCY: ON DEMAND (62/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES(50/YR) OR 300 PAGES(12/YR)

PARAMETERS

DESIRED DATE	TYPE LENGTH	DATE 6	(P1)
DESIRED LICENSE NUMBER	TYPE LENGTH	FIXED TEXT 13	(P2)
ID METHOD VALUES = "LICENSE" OR "DOCKET" - DEFINES THE NUMBER SPECIFIED ABOVE			(P3)
LICENSE TYPE DESIRED			(P4)
DESIRED RIS			(P5)

CALCULATED RESULTS

TOTAL EFFECTIVE KG	TYPE LENGTH	FIXED TEXT 9	(C1)
USE AN NRC PROVIDED ALGORITHM CURRENT ELEMENT WEIGHT	TYPE LENGTH	FIXED TEXT 9	(C2)
FUNCTION OF DATA FROM THE PREVIOUS INVENTORY PERIOD BOOK BALANCE - ELEMENT WEIGHT			(WP4790)
AND DATA ASSOCIATED WITH THE DESIRED INVENTORY PERIOD MEASURED ELEMENT WEIGHT			(SZ4504)
NONMEASURED ELEMENT WEIGHT			(FT4459)
CURRENT ISOTOPE WEIGHT	TYPE LENGTH	FIXED TEXT 9	(C3)
FUNCTION OF DATA FROM THE PREVIOUS INVENTORY PERIOD BOOK BALANCE - ISOTOPE WEIGHT			(WP4284)
AND DATA ASSOCIATED WITH THE DESIRED INVENTORY PERIOD MEASURED ISOTOPIC WEIGHT			(SZ3294)
NONMEASURED ISOTOPE WEIGHT			(FT3535)

```
SELECTION
---------
SELECT
    MATERIAL BAL AREA                                                    (RB     )
WHERE
1) VIA
    IS INCLUDED IN AN ACCOUNT ID                                         (RBTM   )

    ACCOUNT ID                                                           (TM     )

    REPORTING IDENTIFICATION SYMBOL                                      (TM6248)
  IS EQUAL TO
    DESIRED RIS                                                          (P5     )

2) VIA
    HAS MBA FORMULA LIMITS                                               (RBCS   )

    MBA FORMULA LIMITS                                                   (CSS    )
  THEN VIA
    IS DEFINED WITHIN LICENSE FORMULA LIMIT                              (CSFB   )

    LICENSE FORMULA LIMIT                                                (FB     )
  THEN VIA
    IS DEFINED IN A LICENSE TEXT                                         (FBZT   )

    LICENSE TEXT                                                         (ZT     )
  THEN VIA
    IS OWNED BY LICENSE                                                  (ZTNH   )

    LICENSE                                                              (NH     )
  WHERE IF
    ID METHOD                                                            (P3     )
  IS EQUAL TO "LICENSE"
    LICENSE NUMBER                                                       (NH2655)
  IS EQUAL TO
    DESIRED LICENSE NUMBER          TYPE      FIXED TEXT                 (P2     )
                                    LENGTH    13
  ELSE WHERE
    DOCKET NUMBER                                                        (NH2112)
  IS EQUAL TO
    DESIRED LICENSE NUMBER          TYPE      FIXED TEXT                 (P2     )
                                    LENGTH    13

3) VIA
    APPLIES TO PHASE                                                     (NHKV   )

    PHASE                                                                (KV     )
  THEN VIA
    FURTHER DEFINES LICENSE TYPE                                         (KVVB   )

    LICENSE TYPE ID                                                      (VB4350)
  IS EQUAL TO
    LICENSE TYPE DESIRED                                                 (P4     )

THEN FOR EACH SELECTED MBA
VIA
    IS IN A SITE                                                         (RBMX   )
```

```
    SITE                                                          (MX     )

THEN FOR EACH SELECTED
    MBA FORMULA LIMIT                                             (CS     )
 VIA
    IS IN TERMS OF MBA POSS LIMITS                                (CSXC   )

    MBA POSSESSION LIMITS                                         (XCS    )

THEN VIA
    DEFINES REPORTABLE INVENTORIES                                (XCZV   )

    REPORTABLE INVENTORIE                                         (ZVS    )
 AND VIA
    IS DEFINED BY AN NRC RANGE                                    (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                     (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                         (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                          (ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                          (ZV     )

1) TO GET THE BALANCE ON HAND AT THE BEGINNING OF THE APPLICABLE PERIOD
VIA
    HAS ASSOCIATED INVENTORY PERIODS                              (ZVQP   )
 SELECT THE LATEST
    INVENTORY PERIOD                                              (QP     )
 WHERE
    DATE                                                          (QP8085)
 IS LESS THAN OR EQUAL TO
    DESIRED DATE                          TYPE     DATE           (P1     )
                                          LENGTH   6

2) TO GET THE ADDITIONS WHICH OCCURRED DURING THE APPLICABLE PERIOD
SELECT THE SUBSEQUENT
    INVENTORY PERIOD                                              (QP     )
 AND VIA
    CROSS REF CREDITED BY TRANSACTION CONSTI                      (QPGLC  )
 SELECT
    TRANS CONSTITUENT                                             (GL     )
 WHERE VIA
    IS A PART OF TRANSACTION BATCH                                (GLKQ   )
 WHICH
    IS IDENTIFIED WITH ONE S/R PAIR                               (KQKX   )

    DATE RECEIVED                                                 (KX1402)
 IS LESS THAN OR EQUAL
    DESIRED DATE                          TYPE     DATE           (P1     )
                                          LENGTH   6

THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                             (GL     )
 IF
    TYPE OF QUANTITY                                              (GL1346)
 IS 'MEASUREMENT', VIA
    MAY HAVE A RECEIVER MEASURED VALUE                            (GLSZR  )
```

```
 SELECT
    VALUE                                                          (SZ     )
 OTHERWISE, THE SUBCONSTRUCT
    NONMEASUREMENT                                                 (FT     )
 CONTAINS THE REQUIRED DATA
3) TO GET THE SUBTRACTIONS WHICH OCCURRED DURING THE APPLICABLE PERIOD
STILL USING THE SUBSEQUENT
    INVENTORY PERIOD                                               (QP     )
 VIA
    CROSS REF DEBITED BY TRANSACTION CONSTIT                       (QPGLD  )
 SELECT
    TRANS CONSTITUENT                                              (GL     )
 WHERE VIA
    IS A PART OF TRANSACTION BATCH                                 (GLKQ   )
 WHICH
    IS IDENTIFIED WITH ONE S/R PAIR                                (KQKX   )

    DATE SHIPPED                                                   (KX3205)
 IS LESS THAN OR EQUAL
    DESIRED DATE                          TYPE     DATE            (P1     )
                                          LENGTH   6

THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                              (GL     )
 IF
    TYPE OF QUANTITY                                               (GL1346)
 IS 'MEASUREMENT', VIA
    MAY HAVE A SHIPPER MEASURED VALUE                              (GLSZS  )
 SELECT
    VALUE                                                          (SZ     )
 OTHERWISE, THE SUBCONSTRUCT
    NONMEASUREMENT                                                 (FT     )
 CONTAINS THE REQUIRED DATA
DISPLAY
-------
IF
    LICENSE TYPE DESIRED                                           (P4     )
  THEN
LEVEL 1
    LICENSE TYPE ID                                                (VB4350)

LEVEL 2
    ELEMENT NAME                                                   (ZJ1115)

    ISOTOPE NUMBER                                                 (ZJ0356)

LEVEL 3
    DOCKET NUMBER                                                  (NH2112)

    LICENSE NUMBER                                                 (NH2655)

LEVEL 4
    FACILITY NAME                                                  (MX3850)

    FACILITY ADDRESS                                               (MX8349)

LEVEL 5
    REPORTING IDENTIFICATION SYMBOL                                (TM6248)
```

```
    RIS SUFFIX                                                    (RB3520)

ELSE IF
    DESIRED LICENSE NUMBER                  TYPE      FIXED TEXT  (P2    )
                                            LENGTH    13
  THEN
LEVEL 1
    DOCKET NUMBER                                                 (NH2112)

    LICENSE NUMBER                                                (NH2655)

    LICENSE TYPE ID                                               (VB4350)

LEVEL 2
    ELEMENT NAME                                                  (ZJ1115)

    ISOTOPE NUMBER                                                (ZJ0356)

LEVEL 3
    FACILITY NAME                                                 (MX3850)

    FACILITY ADDRESS                                              (MX8349)

LEVEL 4
    REPORTING IDENTIFICATION SYMBOL                               (TM6248)

    RIS SUFFIX                                                    (RB3520)

ELSE IF
    DESIRED RIS                                                   (P5    )
  THEN
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                               (TM6248)

LEVEL 2
    ELEMENT NAME                                                  (ZJ1115)

    ISOTOPE NUMBER                                                (ZJ0356)

LEVEL 3
    RIS SUFFIX                                                    (RB3520)

    FACILITY NAME                                                 (MX3850)

    FACILITY ADDRESS                                              (MX8349)

LEVEL 4
    DOCKET NUMBER                                                 (NH2112)

    LICENSE NUMBER                                                (NH2655)

    LICENSE TYPE ID                                               (VB4350)

  THEN IN ANY CASE:
LEVEL 6
    STANDARD MATERIAL TYPE CODE                                   (RV2908)

    BEGINNING ENRICHMENT                                          (RV2567)
```

```
     ENDING ENRICHMENT                                                (RV2964)

     CURRENT ELEMENT WEIGHT                   TYPE     FIXED TEXT     (C2    )
                                              LENGTH   9

     CURRENT ISOTOPE WEIGHT                   TYPE     FIXED TEXT     (C3    )
                                              LENGTH   9

 DATA FROM THE PREVIOUS INVENTORY PERIOD
 NOT PRINTED
     BOOK BALANCE - ELEMENT WEIGHT                                    (QF4790)

     BOOK BALANCE - ISOTOPE WEIGHT                                    (QP4284)

 LEVEL 7
 DATA ASSOCIATED WITH THE DESIRED INVENTORY PERIOD
 NOT PRINTED
     MEASURED ELEMENT WEIGHT                                          (SZ4504)

     MEASURED ISOTOPIC WEIGHT                                         (SZ3294)

     NONMEASURED ELEMENT WEIGHT                                       (FT4459)

     NONMEASURED ISOTOPE WEIGHT                                       (FT3535)

 LEVEL 5
 ONLY IF
     LICENSE TYPE DESIRED                                             (P4    )
   WAS SPECIFIED
     SUM OF
     CURRENT ELEMENT WEIGHT                   TYPE     FIXED TEXT     (C2    )
                                              LENGTH   9

     SUM OF
     CURRENT ISOTOPE WEIGHT                   TYPE     FIXED TEXT     (C3    )
                                              LENGTH   9

 LEVEL 4
     SUM OF
     CURRENT ELEMENT WEIGHT                   TYPE     FIXED TEXT     (C2    )
                                              LENGTH   9

     SUM OF
     CURRENT ISOTOPE WEIGHT                   TYPE     FIXED TEXT     (C3    )
                                              LENGTH   9

 LEVEL 3
     SUM OF
     CURRENT ELEMENT WEIGHT                   TYPE     FIXED TEXT     (C2    )
                                              LENGTH   9

     SUM OF
     CURRENT ISOTOPE WEIGHT                   TYPE     FIXED TEXT     (C3    )
                                              LENGTH   9

 LEVEL 2
     SUM OF
     CURRENT ELEMENT WEIGHT                   TYPE     FIXED TEXT     (C2    )
                                              LENGTH   9
```

SUM OF
CURRENT ISOTOPE WEIGHT — TYPE FIXED TEXT (C3)
LENGTH 9

LEVEL 1
TOTAL EFFECTIVE KG — TYPE FIXED TEXT (C1)
LENGTH 9

PROCESSING NOTES

IN THE DISPLAY SECTION, "IF P- " REFERS TO THE PARAMETER SPECIFIED. IF MORE THAN ONE PARAMETER, THEN IT REFERS TO THE LOWEST LEVEL PARAMETER SPECIFIED. HIGH TO LOW: LICENSE TYPE, LICENSE OR DOCKET NUMBER, RIS.

TITLE

DETAILED LICENSEE INVENTORY BY MBA

PURPOSE

THIS REPORT LISTS DETAILED INVENTORY DATA FROM THE LAST PHYSICAL INVENTORY COMPLETED AS OF A SPECIFIED DATE. THE REPORT CAN BE REQUESTED FOR A PARTICULAR MBA OR FOR ALL MBA'S UNDER A PARTICULAR LICENSE TYPE.

FREQUENCY: MONTHLY OR ON DEMAND (120/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 1 PAGES(100/YR) OR 500 PAGES(20/YR)

PARAMETERS

REPORT OPTION	TYPE LENGTH	FIXED TEXT 5	(P1)
INDICATE WHETHER BY LICENSE TYPE OR MBA			
DESIRED DATE	TYPE LENGTH	DATE 6	(P2)
DESIRED LICENSE TYPE	TYPE LENGTH	FIXED TEXT 2	(P3)
ENTER ONLY IF REPORT IS BY LICENSE TYPE			
DESIRED RIS	TYPE LENGTH	FIXED TEXT 3	(P4)
ENTER ONLY IF REPORT IS BY MBA			
DESIRED MBA	TYPE LENGTH	FIXED TEXT 2	(P5)
ENTER ONLY IF REPORT IS BY MBA			

CALCULATED RESULTS

PROPAGATED ELEMENT ERROR	TYPE LENGTH	FIXED TEXT 9	(C1)
FUNCTION OF ERROR (ELEMENT)			(SZ3425)
PROPAGATED ISOTOPE ERROR	TYPE LENGTH	FIXED TEXT 9	(C2)
FUNCTION OF ERROR (ISOTOPIC)			(SZ2237)
CARRYOVER NON-ITEM ELEMENT WEIGHT	TYPE LENGTH	FIXED TEXT 9	(C3)
FUNCTION OF BOOK BALANCE - ELEMENT WEIGHT AND THE MEASURED ELEMENT WEIGHT OBTAINED VIA CROSS REF VALUES			(QP4790) (SZ4504) (QPSZ)
CARRYOVER NON-ITEM ISOTOPE WEIGHT	TYPE LENGTH	FIXED TEXT 9	(C4)
FUNCTION OF			

```
    BOOK BALANCE - ISOTOPE WEIGHT                                   (QP4284)
     AND THE
    MEASURED ISOTOPIC WEIGHT                                        (SZ3294)
     OBTAINED VIA
    CROSS REF VALUES                                                (QPSZ   )

SELECTION
---------
1) IF
    REPORT OPTION                    TYPE      FIXED TEXT           (PL     )
                                     LENGTH    5
 IS BY LICENSE TYPE
SELECT
    LICENSE TYPES                                                   (VBS    )
 WHERE
    TITLE OF LICENSE TYPE                                           (VB0374)
 EQUALS
    DESIRED LICENSE TYPE             TYPE      FIXED TEXT           (P3     )
                                     LENGTH    2

THEN VIA
    HAS PHASES                                                      (VBKV   )

    PHASES                                                          (KVS    )

THEN VIA
    HAS LICENSES                                                    (KVNH   )

    LICENSES                                                        (NHS    )

THEN VIA
    HAS LICENSE TEXTS                                               (NHZT   )

    MAY SPECIFY LICENSE FORMULA LIMITS                              (ZTFB   )

    LICENSE FORMULA LIMIT                                           (FBS    )

THEN VIA
    ENCOMPASSES MBA FORMULA LIMITS                                  (FBCS   )

    MBA FORMULA LIMITS                                              (CSS    )

AND VIA
    IS DEFINED FOR AN MBA                                           (CSRB   )
 THE CORRESPONDING
    MATERIAL BAL AREA                                               (RB     )
 AND FOR EACH
A) VIA
    IS IN A SITE                                                    (RBMX   )
 THE CORRESPONDING
    SITE                                                            (MX     )

B) VIA
    IS INCLUDED IN AN ACCOUNT ID                                    (RBTM   )
 THE CORRESPONDING
    ACCOUNT ID                                                      (TM     )

2) IF
```

```
    REPORT OPTION                                TYPE     FIXED TEXT   (P1    )
                                                 LENGTH   5
 IS BY MBA
SELECT AS A GROUP
    MATERIAL BAL AREA                                                  (RB    )
 AND
A) VIA
    IS IN A SITE                                                       (RBMX  )
 THE CORRESPONDING
    SITE                                                               (MX    )
 AND
B) VIA
    IS INCLUDED IN AN ACCOUNT ID                                       (RBTM  )
 THE CORRESPONDING
    ACCOUNT ID                                                         (TM    )

WHERE
    RIS SUFFIX                                                         (RB3520)
 EQUALS
    DESIRED MBA                                  TYPE     FIXED TEXT   (P5    )
                                                 LENGTH   2
 AND
    REPORTING IDENTIFICATION SYMBOL                                    (TM6248)
 EQUALS
    DESIRED RIS                                  TYPE     FIXED TEXT   (P4    )
                                                 LENGTH   3

THEN FOR EACH SELECTED
    MATERIAL BAL AREA                                                  (RB    )
 VIA
    HAS MBA FORMULA LIMITS                                             (RBCS  )

    MBA FORMULA LIMITS                                                 (CSS   )
 AND FOR EACH, VIA
    IS DEFINED WITHIN LICENSE FORMULA LIMIT                            (CSFB  )
 THE CORRESPONDING
    LICENSE FORMULA LIMIT                                              (FB    )
 AND VIA
    IS DEFINED IN A LICENSE TEXT                                       (FBZT  )

    IS OWNED BY LICENSE                                                (ZTNH  )
 THE CORRESPONDING
    LICENSE                                                            (NH    )
 AND VIA
    APPLIES TO PHASE                                                   (NHKV  )
 THE CORRESPONDING
    PHASE                                                              (KV    )
 AND VIA
    FURTHER DEFINES LICENSE TYPE                                       (KVVB  )
 THE CORRESPONDING
    LICENSE TYPE                                                       (VB    )

THEN, FOR EITHER REPORT OPTION
FOR EACH SELECTED
    MBA FORMULA LIMIT                                                  (CS    )

SELECT VIA
    IS IN TERMS OF MBA POSS LIMITS                                     (CSXC  )
```

```
    MBA POSSESSION LIMITS                                              ( XCS    )

THEN VIA
    DEFINES REPORTABLE INVENTORIES                                     ( XCZV   )

    REPORTABLE INVENTORIE                                              ( ZVS    )
 AND VIA
    IS DEFINED BY AN NRC RANGE                                         ( ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                          ( RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                              ( RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                               ( ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                               ( ZV     )
 VIA
    HAS ASSOCIATED INVENTORY PERIODS                                   ( ZVQP   )
 SELECT THE LATEST
    INVENTORY PERIOD                                                   ( QP     )
 WHERE
    DATE                                                               ( QP8085 )
 IS LESS THAN OR EQUAL TO
    DESIRED DATE                          TYPE     DATE                ( P2     )
                                          LENGTH   6

THEN, FOR EACH SELECTED
    INVENTORY PERIOD                                                   ( QP     )

1) TO GET THE CARRYOVER ITEMS AT THE BEGINNING OF THE INVENTORY PERIOD,
SELECT VIA
    CROSS REF VALUES                                                   ( QPSZ   )

    VALUES                                                             ( SZS    )
 AND VIA
    MAY BE THE VALUE OF AN ITEM                                        ( SZCF   )
 THE CORRESPONDING
    ITEM                                                               ( CF     )
 THEN, FOR EACH SELECTED
    VALUE                                                              ( SZ     )
 VIA
    MAY BE RECEIVER MEASURE OF TRANS CONSTIT                           ( SZGLR  )
 SELECT THE LATEST
    TRANS CONSTITUENT                                                  ( GL     )

2) TO GET INVENTORY BY INVENTORY BATCHES,
SELECT VIA
    CROSS REF INVENTORY BATCHES                                        ( QPCM   )

    INVENTORY BATCHES                                                  ( CMS    )
 THEN VIA
    CROSS REF ITEMS                                                    ( CMCF   )

    ITEMS                                                              ( CFS    )

3) TO GET THE ADDITIONS WHICH OCCURRED DURING THE INVENTORY PERIOD,
VIA
    CROSS REF CREDITED BY TRANSACTION CONSTI                           ( QPGLC  )
```

```
 SELECT
    TRANS CONSTITUENTS                                                  (GLS    )
 AND VIA
    IS A PART OF TRANSACTION BATCH                                      (GLKQ   )
 THE CORRESPONDING
    TRANSACTION BATCH                                                   (KQ     )
 THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                                   (GL     )
 IF
    TYPE OF QUANTITY                                                    (GL1346)
 IS NOT 'MEASUREMENT', THE SUBCONSTRUCT
    NONMEASUREMENT                                                      (FT     )
 CONTAINS THE REQUIRED DATA
OTHERWISE, VIA
    MAY HAVE A RECEIVER MEASURED VALUE                                  (GLSZR  )
 SELECT THE CORRESPONDING
    VALUE                                                               (SZ     )
 AND IF
    MAY BE THE VALUE OF AN ITEM                                         (SZCF   )
 SELECT THE CORRESPONDING
    ITEM                                                                (CF     )

4) TO GET THE SUBTRACTIONS WHICH OCCURED DURING THE INVENTORY PERIOD,
VIA
    CROSS REF DEBITED BY TRANSACTION CONSTIT                            (QPGLD  )
 SELECT
    TRANS CONSTITUENTS                                                  (GLS    )
 AND VIA
    IS A PART OF TRANSACTION BATCH                                      (GLKQ   )
 THE CORRESPONDING
    TRANSACTION BATCH                                                   (KQ     )
 THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                                   (GL     )
 IF
    TYPE OF QUANTITY                                                    (GL1346)
 IS NOT 'MEASUREMENT', THE SUBCONSTRUCT
    NONMEASUREMENT                                                      (FT     )
 CONTAINS THE REQUIRED DATA
OTHERWISE, VIA
    MAY HAVE A SHIPPER MEASURED VALUE                                   (GLSZS  )
 SELECT THE CORRESPONDING
    VALUE                                                               (SZ     )
 AND IF
    MAY BE THE VALUE OF AN ITEM                                         (SZCF   )
 SELECT THE CORRESPONDING
    ITEM                                                                (CF     )

DISPLAY
-------
LEVEL 1
    TITLE OF LICENSE TYPE                                               (VB0374)

LEVEL 2
    REPORTING IDENTIFICATION SYMBOL                                     (TM5248)

    RIS SUFFIX                                                          (RB3520)

    FACILITY NAME                                                       (MX3850)
```

FACILITY ADDRESS			(MX8349)
LEVEL 3			
DOCKET NUMBER			(NH2112)
LICENSE NUMBER			(NH2655)
LEVEL 4			
ELEMENT NAME			(ZJ1115)
ISOTOPE NUMBER			(ZJ0356)
STANDARD MATERIAL TYPE CODE			(RV2908)
BEGINNING ENRICHMENT			(RV2567)
ENDING ENRICHMENT			(RV2964)
DATE			(QP8085)
BOOK BALANCE - ELEMENT WEIGHT			(QP4790)
BOOK BALANCE - ISOTOPE WEIGHT			(QP4284)
CARRYOVER NON-ITEM ELEMENT WEIGHT	TYPE LENGTH	FIXED TEXT 9	(C3)
CARRYOVER NON-ITEM ISOTOPE WEIGHT	TYPE LENGTH	FIXED TEXT 9	(C4)
LEVEL 5 (INVENTORY BY INVENTORY BATCHES)			
BATCH NUMBER			(CM7150)
LEVEL 6 (ANY ITEMS IN THE BATCH)			
ITEM NUMBER/SERIAL			(CF0726)
LEVEL 5			
COMPOSITION CODE			(CL1896)
ITEM NUMBER/SERIAL			(CF0726)
MEASURED ELEMENT WEIGHT			(SZ4504)
MEASURED ISOTOPIC WEIGHT			(SZ3294)
ERROR (ISOTOPIC)			(SZ2237)
ERROR (ELEMENT)			(SZ3425)
LEVEL 5			
TYPE OF INVENTORY CHANGE			(KQ9141)
COMPOSITION CODE			(CL1896)
EITHER			
NONMEASURED ELEMENT WEIGHT			(FT4459)
OR			
MEASURED ELEMENT WEIGHT			(SZ4504)

```
EITHER
    NONMEASURED ISOTOPE WEIGHT                                          (FT3535)
 OR
    MEASURED ISOTOPIC WEIGHT                                            (SZ3294)

EITHER
    ERROR (ISOTOPIC)                                                    (SZ2257)
 OR
N/A
EITHER
    ERROR (ELEMENT)                                                     (SZ3425)
 OR
N/A
LEVEL 4  (TOTAL THIS ELEM/ISOT THIS LICENSE)
COMBINED SUM OF
    CARRYOVER NON-ITEM ELEMENT WEIGHT          TYPE       FIXED TEXT    (C3    )
                                               LENGTH     9

    MEASURED ELEMENT WEIGHT                                             (SZ4504)
 AND
    NONMEASURED ELEMENT WEIGHT                                          (FT4459)

COMBINED SUM OF
    CARRYOVER NON-ITEM ISOTOPE WEIGHT          TYPE       FIXED TEXT    (C4    )
                                               LENGTH     9

    MEASURED ISOTOPIC WEIGHT                                            (SZ3294)
 AND
    NONMEASURED ISOTOPE WEIGHT                                          (FT3535)

SUM OF THOSE
    MEASURED ELEMENT WEIGHT                                             (SZ4504)
 FOR WHICH
    TYPE OF INVENTORY CHANGE                                            (KQ9141)
 IS INVENTORY ADJUSTMENT
SUM OF THOSE
    MEASURED ISOTOPIC WEIGHT                                            (SZ3294)
 FOR WHICH
    TYPE OF INVENTORY CHANGE                                            (KQ9141)
 IS INVENTORY ADJUSTMENT
    PROPAGATED ELEMENT ERROR                   TYPE       FIXED TEXT    (C1    )
                                               LENGTH     9

    PROPAGATED ISOTOPE ERROR                   TYPE       FIXED TEXT    (C2    )
                                               LENGTH     9

LEVEL 3  (TOTALS THIS ELEM/ISOT THIS RIS)
    ELEMENT NAME                                                        (ZJ1115)

    ISOTOPE NUMBER                                                      (ZJ0356)

    STANDARD MATERIAL TYPE CODE                                         (RV2908)

    BEGINNING ENRICHMENT                                                (RV2567)

    ENDING ENRICHMENT                                                   (RV2964)

COMBINED SUM OF
    CARRYOVER NON-ITEM ELEMENT WEIGHT          TYPE       FIXED TEXT    (C3    )
```

	LENGTH 9		
MEASURED ELEMENT WEIGHT			(SZ4504)
NONMEASURED ELEMENT WEIGHT			(FT4459)
COMBINED SUM OF CARRYOVER NON-ITEM ISOTOPE WEIGHT	TYPE LENGTH 9	FIXED TEXT	(C4)
MEASURED ISOTOPIC WEIGHT			(SZ3294)
NONMEASURED ISOTOPE WEIGHT			(FT3535)
LEVEL 2 (TOTALS THIS ELEM/ISOT THIS LICENSE TYPE)			
ELEMENT NAME			(ZJ1115)
ISOTOPE NUMBER			(ZJ0356)
STANDARD MATERIAL TYPE CODE			(RV2908)
BEGINNING ENRICHMENT			(RV2567)
ENDING ENRICHMENT			(RV2964)
COMBINED SUM OF CARRYOVER NON-ITEM ELEMENT WEIGHT	TYPE LENGTH 9	FIXED TEXT	(C3)
MEASURED ELEMENT WEIGHT			(SZ4504)
NONMEASURED ELEMENT WEIGHT			(FT4459)
COMBINED SUM OF CARRYOVER NON-ITEM ISOTOPE WEIGHT	TYPE LENGTH 9	FIXED TEXT	(C4)
MEASURED ISOTOPIC WEIGHT			(SZ3294)
NONMEASURED ISOTOPE WEIGHT			(FT3535)

TITLE

INVENTORY DIFFERENCES BY MBA

PURPOSE

THIS REPORT WILL LIST INVENTORY DIFFERENCES REPORTED DURING THE LAST COMPLETED INVENTORY PERIOD FOR EACH STANDARD MATERIAL TYPE WITHIN A PARTICULAR MATERIAL REPORTING AREA. THE REPORT CAN BE SELECTED FOR A SPECIFIED MBA OR FOR ALL MBA'S UNDER A PARTICULAR LICENSE TYPE.

FREQUENCY: MONTHLY OR ON DEMAND (500/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 25 PAGES

PARAMETERS

REPORT OPTION	TYPE	FIXED TEXT	(P1)
	LENGTH	5	
INDICATE WHETHER BY LICENSE TYPE OR MBA OR SITE			
DESIRED LICENSE TYPE	TYPE	FIXED TEXT	(P2)
	LENGTH	2	
ENTER ONLY IF REPORT IS BY LICENSE TYPE			
DESIRED RIS	TYPE	FIXED TEXT	(P3)
	LENGTH	3	
ENTER ONLY IF REPORT IS BY MBA			
DESIRED MBA	TYPE	FIXED TEXT	(P4)
	LENGTH	2	
ENTER ONLY IF REPORT IS BY MBA			
DESIRED FACILITY			(P5)
ENTER ONLY IF REPORT IS BY SITE			

CALCULATED RESULTS

PROPAGATED ELEMENT ERROR	TYPE	FIXED TEXT	(C1)
	LENGTH	9	
FUNCTION OF ERROR (ELEMENT)			(SZ3425)
PROPAGATED ISOTOPE ERROR	TYPE	FIXED TEXT	(C2)
	LENGTH	9	
FUNCTION OF ERROR (ISOTOPIC)			(SZ2237)

SELECTION

1) IF

REPORT OPTION	TYPE	FIXED TEXT	(P1)
	LENGTH	5	

IS BY LICENSE TYPE

SELECT

LICENSE TYPES			(VBS)

WHERE

TITLE OF LICENSE TYPE			(V80374)

EQUALS

DESIRED LICENSE TYPE	TYPE	FIXED TEXT	(P2)

```
                                                    LENGTH   2

THEN VIA
    HAS PHASES                                                          (VBKV   )

    PHASES                                                              (KVS    )

THEN VIA
    HAS LICENSES                                                        (KVNH   )

    LICENSES                                                            (NHS    )

THEN VIA
    HAS LICENSE TEXTS                                                   (NHZT   )

    MAY SPECIFY LICENSE FORMULA LIMITS                                  (ZTFB   )

    LICENSE FORMULA LIMIT                                               (FBS    )

THEN VIA
    ENCOMPASSES MBA FORMULA LIMITS                                      (FBCS   )

    MBA FORMULA LIMITS                                                  (CSS    )

AND VIA
    IS DEFINED FOR AN MBA                                               (CSRB   )
 THE CORRESPONDING
    MATERIAL BAL AREA                                                   (RB     )
 AND FOR EACH
A) VIA
    IS IN A SITE                                                        (RBMX   )
 THE CORRESPONDING
    SITE                                                                (MX     )
 AND
B) VIA
    IS INCLUDED IN AN ACCOUNT ID                                        (RBTM   )
 THE CORRESPONDING
    ACCOUNT ID                                                          (TM     )


2) IF
    REPORT OPTION                       TYPE     FIXED TEXT             (P1     )
                                        LENGTH   5
 IS BY MBA
SELECT AS A GROUP
    MATERIAL BAL AREA                                                   (RB     )
 AND
A) VIA
    IS IN A SITE                                                        (RBMX   )
 THE CORRESPONDING
    SITE                                                                (MX     )
 AND
B) VIA
    IS INCLUDED IN AN ACCOUNT ID                                        (RBTM   )
 THE CORRESPONDING
    ACCOUNT ID                                                          (TM     )

WHERE
    RIS SUFFIX                                                          (RB3520)
```

```
 EQUALS
    DESIRED MBA                                  TYPE     FIXED TEXT    (P4     )
                                                 LENGTH   2
 AND
    REPORTING IDENTIFICATION SYMBOL                                     (T46248)
 EQUALS
    DESIRED RIS                                  TYPE     FIXED TEXT    (P3     )
                                                 LENGTH   3

3) IF
    REPORT OPTION                                TYPE     FIXED TEXT    (P1     )
                                                 LENGTH   5
      IS BY SITE, SELECT
    SITE                                                                (MX     )
      WHERE
    FACILITY NAME                                                       (MX3850)
      IS EQUAL TO
    DESIRED FACILITY                                                    (P5     )
      THEN VIA
    HAS MATL BALANCE AREAS                                              (MXRB   )

    MATL BAL AREAS                                                      (RBS    )
      THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                                        (RBTM   )

    ACCOUNT ID                                                          (TM     )

THEN, FOR EACH SELECTED
    MATERIAL BAL AREA                                                   (RB     )
 VIA
    HAS MBA FORMULA LIMITS                                              (RBCS   )
 SELECT
    MBA FORMULA LIMITS                                                  (CSS    )
 AND FOR EACH, VIA
    IS DEFINED WITHIN LICENSE FORMULA LIMIT                             (CSFB   )
 THE CORRESPONDING
    LICENSE FORMULA LIMIT                                               (FB     )
 AND VIA
    IS DEFINED IN A LICENSE TEXT                                        (FBZT   )

    IS OWNED BY LICENSE                                                 (ZTNH   )
 THE CORRESPONDING
    LICENSE                                                             (NH     )
 AND VIA
    APPLIES TO PHASE                                                    (NHKV   )
 THE CORRESPONDING
    PHASE                                                               (KV     )
 AND VIA
    FURTHER DEFINES LICENSE TYPE                                        (KVVB   )
 THE CORRESPONDING
    LICENSE TYPE                                                        (VB     )

THEN, FOR EITHER REPORT OPTION
FOR EACH SELECTED
    MBA FORMULA LIMIT                                                   (CS     )

VIA
    IS IN TERMS OF MBA POSS LIMITS                                      (CSXC   )
 SELECT
```

```
    MBA POSSESSION LIMITS                                          (XCS    )

THEN VIA
    DEFINES REPORTABLE INVENTORIES                                 (XCZV   )

    REPORTABLE INVENTORIE                                          (ZVS    )
 AND VIA
    IS DEFINED BY AN NRC RANGE                                     (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                      (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                          (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                           (ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                           (ZV     )
 VIA
    HAS ASSOCIATED INVENTORY PERIODS                               (ZVQP   )
 SELECT THE LATEST
    INVENTORY PERIOD                                               (QP     )
 WHERE
    DATE                                                           (QP8085)
 IS NOT BLANK
THEN, FOR EACH SELECTED
    INVENTORY PERIOD                                               (QP     )

1) TO GET THE INVENTORY DIFFERENCES THAT WERE ADDED DURING THE PERIOD
SELECT AS A PAIR, VIA
    CROSS REF CREDITED BY TRANSACTION CONSTI                       (QPGLC  )

    TRANS CONSTITUENT                                              (GL     )
 AND VIA
    IS A PART OF TRANSACTION BATCH                                 (GLKQ   )
 THE CORRESPONDING
    TRANSACTION BATCH                                              (KQ     )
 WHERE
    TYPE OF INVENTORY CHANGE                                       (KQ9141)
 IS 'INVENTORY DIFFERENCE'
THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                              (GL     )
 VIA
    MAY HAVE A RECEIVER MEASURED VALUE                             (GLSZR  )
 SELECT THE CORRESPONDING
    VALUE                                                          (SZ     )

2) TO GET THE INVENTORY DIFFERENCES THAT WERE SUBTRACTED
SELECT AS A PAIR, VIA
    CROSS REF DEBITED BY TRANSACTION CONSTIT                       (QPGLD  )

    TRANS CONSTITUENT                                              (GL     )
 AND VIA
    IS A PART OF TRANSACTION BATCH                                 (GLKQ   )
 THE CORRESPONDING
    TRANSACTION BATCH                                              (KQ     )
 WHERE
    TYPE OF INVENTORY CHANGE                                       (KQ9141)
 IS INVENTORY DIFFERENCE
THEN, FOR EACH SELECTED
```

```
    TRANS CONSTITUENT                                          (GL     )
 VIA
    MAY HAVE A SHIPPER MEASURED VALUE                          (GLSZS  )
 SELECT THE CORRESPONDING
    VALUE                                                      (SZ     )

DISPLAY
-------
LEVEL 1
  IF P1 = "LICENSE TYPE" THEN
    TITLE OF LICENSE TYPE                                      (VB0374)

  ELSE IF P1 = "SITE" THEN
    FACILITY NAME                                              (MX3850)

  ELSE IF P1 = "RIS" THEN
    REPORTING IDENTIFICATION SYMBOL                            (TM6248)

LEVEL 2
  IF P1 = "LICENSE TYPE" OR "SITE" THEN
    REPORTING IDENTIFICATION SYMBOL                            (TM6248)

  AND IN ANY CASE
    RIS SUFFIX                                                 (RB3520)

    FACILITY NAME                                              (MX3850)

LEVEL 3
    DOCKET NUMBER                                              (NH2112)

    LICENSE NUMBER                                             (NH2655)

LEVEL 4
    ELEMENT NAME                                               (ZJ1115)

    ISOTOPE NUMBER                                             (ZJ0356)

    STANDARD MATERIAL TYPE CODE                                (RV2908)

    BEGINNING ENRICHMENT                                       (RV2567)

    ENDING ENRICHMENT                                          (RV2964)

    BOOK BALANCE - ELEMENT WEIGHT                              (QP4790)

    BOOK BALANCE - ISOTOPE WEIGHT                              (QP4284)
```

TITLE

HISTORICAL INVENTORY DIFFERENCE BY MBA

PURPOSE

THIS REPORT WILL LIST INVENTORY DIFFERENCES REPORTED DURING ALL INVENTORY PERIODS COMPLETED WITHIN A SPECIFIED TIME-FRAME. THE REPORT IS FOR EACH STANDARD MATERIAL TYPE WITHIN A PARTICULAR MATERIAL REPORTING AREA. THE REPORT CAN BE SELECTED FOR A SPECIFIED MBA OR FOR ALL MBA'S UNDER A PARTICULAR SITE.

FREQUENCY: ON DEMAND (60/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 15 PAGES

PARAMETERS

REPORT OPTION	TYPE LENGTH	FIXED TEXT 5	(P1)
INDICATE WHETHER BY SITE OR MBA			
REPORT START DATE	TYPE LENGTH	DATE 6	(P2)
REPORT END DATE	TYPE LENGTH	DATE 6	(P3)
DESIRED SITE	TYPE LENGTH	FIXED TEXT 2	(P4)
ENTER ONLY IF REPORT IS BY SITE			
DESIRED RIS	TYPE LENGTH	FIXED TEXT 3	(P5)
ENTER ONLY IF REPORT IS BY MBA			
DESIRED MBA	TYPE LENGTH	FIXED TEXT 2	(P6)
ENTER ONLY IF REPORT IS BY MBA			

CALCULATED RESULTS

PROPAGATED ELEMENT ERROR	(C1)
FUNCTION OF	
ERROR (ELEMENT)	(SZ3425)
PROPAGATED ISOTOPE ERROR	(C2)
FUNCTION OF	
ERROR (ISOTOPIC)	(SZ2237)
PROPAGATED ELEMENT ERROR	(C3)
FUNCTION OF	
ERROR (ELEMENT)	(SZ3425)
PROPAGATED ISOTOPE ERROR	(C4)
FUNCTION OF	
ERROR (ISOTOPIC)	(SZ2237)
PROPAGATED ELEMENT ERROR	(C5)
FUNCTION OF	

```
    ERROR (ELEMENT)                                                    (SZ3425)

    PROPAGATED ISOTOPE ERROR                                           (C6     )
 FUNCTION OF
    ERROR (ISOTOPIC)                                                   (SZ2237)

SELECTION
---------
SELECT
    MATERIAL BAL AREA                                                  (RB     )
 AND
A) VIA
    IS IN A SITE                                                       (RBMX   )
 THE CORRESPONDING
    SITE                                                               (MX     )
 AND
B) VIA
    IS INCLUDED IN AN ACCOUNT ID                                       (RBTM   )
 THE CORRESPONDING
    ACCOUNT ID                                                         (TM     )

WHERE
    RIS SUFFIX                                                         (RB3520)
 EQUALS
    DESIRED MBA                    TYPE     FIXED TEXT                 (P6     )
                                   LENGTH   2
 AND
    REPORTING IDENTIFICATION SYMBOL                                    (TM6248)
 EQUALS
    DESIRED RIS                    TYPE     FIXED TEXT                 (P5     )
                                   LENGTH   3

OR
    FACILITY NAME                                                      (MX3850)
  EQUALS
    DESIRED SITE                   TYPE     FIXED TEXT                 (P4     )
                                   LENGTH   2

THEN, FOR EACH SELECTED
    MATERIAL BAL AREA                                                  (RB     )
 VIA
    HAS MBA FORMULA LIMITS                                             (RBCS   )
 SELECT
    MBA FORMULA LIMITS                                                 (CSS    )
 AND FOR EACH, VIA
    IS DEFINED WITHIN LICENSE FORMULA LIMIT                            (CSFB   )
 THE CORRESPONDING
    LICENSE FORMULA LIMIT                                              (FB     )
 AND VIA
    IS DEFINED IN A LICENSE TEXT                                       (FBZT   )
 WHICH
    IS OWNED BY LICENSE                                                (ZTNH   )
 THE CORRESPONDING
    LICENSE                                                            (NH     )
 AND VIA
    APPLIES TO PHASE                                                   (NHKV   )
 THE CORRESPONDING
    PHASE                                                              (KV     )
 AND VIA
```

```
    FURTHER DEFINES LICENSE TYPE                                    (KVVB   )
 THE CORRESPONDING
    LICENSE TYPE                                                    (VB     )

THEN
FOR EACH SELECTED
    MBA FORMULA LIMIT                                               (CS     )
 VIA
    IS IN TERMS OF MBA POSS LIMITS                                  (CSXC   )
 SELECT
    MBA POSSESSION LIMITS                                           (XCS    )

THEN VIA
    DEFINES REPORTABLE INVENTORIES                                  (XCZV   )

    REPORTABLE INVENTORIE                                           'ZVS    )
 AND VIA
    IS DEFINED BY AN NRC RANGE                                      (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                       (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                           (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                            (ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                            (ZV     )
 VIA
    HAS ASSOCIATED INVENTORY PERIODS                                (ZVQP   )
 SELECT
    INVENTORY PERIODS                                               (QPS    )
 WHERE
    DATE                                                            (QP8085)
 IS BOTH
A) GREATER THAN OR EQUAL TO
    REPORT START DATE                    TYPE     DATE              (P2     )
                                         LENGTH   6
 AND
B) LESS THAN OR EQUAL TO
    REPORT END DATE                      TYPE     DATE              (P3     )
                                         LENGTH   6

THEN, FOR EACH SELECTED
    INVENTORY PERIOD                                                (QP     )

1) TO GET THE INVENTORY DIFFERENCES ADDED DURING THE PERIOD
SELECT AS A PAIR, VIA
    CROSS REF CREDITED BY TRANSACTION CONSTI                        (QPGLC  )

    TRANS CONSTITUENT                                               (GL     )
 AND VIA
    IS A PART OF TRANSACTION BATCH                                  (GL<Q   )
 THE CORRESPONDING
    TRANSACTION BATCH                                               (KQ     )
 WHERE
    TYPE OF INVENTORY CHANGE                                        (KQ9141)
 IS 'INVENTORY DIFFERENCE'
THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                               (GL     )
```

```
 VIA
    MAY HAVE A RECEIVER MEASURED VALUE                          (GLSZR )
 SELECT THE CORRESPONDING
    VALUE                                                       (SZ    )

2) TO GET THE INVENTORY DIFFERENCES SUBTRACTED DURING THE PERIOD
SELECT AS A PAIR, VIA
    CROSS REF DEBITED BY TRANSACTION CONSTIT                    (QPGLD )

    TRANS CONSTITUENT                                           (GL    )
 AND VIA
    IS A PART OF TRANSACTION BATCH                              (GLKQ  )
 THE CORRESPONDING
    TRANSACTION BATCH                                           (KQ    )
 WHERE
    TYPE OF INVENTORY CHANGE                                    (KQ9141)
 IS 'INVENTORY DIFFERENCE'
THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                           (GL    )
 VIA
    MAY HAVE A SHIPPER MEASURED VALUE                           (GLSZS )
 SELECT THE CORRESPONDING
    VALUE                                                       (SZ    )

DISPLAY
-------
LEVEL 1
IF SITE WAS SPECIFIED, THEN
    FACILITY NAME                                               (MX3850)

ELSE IF MBA WAS SPECIFIED, THEN
    FACILITY NAME                                               (MX3850)

    REPORTING IDENTIFICATION SYMBOL                             (TM6248)

    RIS SUFFIX                                                  (RB3520)

LEVEL 2
    ELEMENT NAME                                                (ZJ1115)

    ISOTOPE NUMBER                                              (ZJ0356)

LEVEL 3
    STANDARD MATERIAL TYPE CODE                                 (RV2908)

    BEGINNING ENRICHMENT                                        (RV2567)

    ENDING ENRICHMENT                                           (RV2964)

LEVEL 4
IF SITE WAS SPECIFIED THEN
    REPORTING IDENTIFICATION SYMBOL                             (TM6248)

    RIS SUFFIX                                                  (RB3520)

LEVEL 5
    DATE                                                        (QP8085)

    BOOK BALANCE - ELEMENT WEIGHT                               (QP4790)
```

BOOK BALANCE - ISOTOPE WEIGHT (QP4284)

SUM OF
MEASURED ELEMENT WEIGHT (SZ4504)

SUM OF
MEASURED ISOTOPIC WEIGHT (SZ3294)

PROPAGATED ELEMENT ERROR (C1)

PROPAGATED ISOTOPE ERROR (C2)

LEVEL 4
SUM OF
BOOK BALANCE - ELEMENT WEIGHT (QP4790)

SUM OF
BOOK BALANCE - ISOTOPE WEIGHT (QP4284)

SUM OF
MEASURED ELEMENT WEIGHT (SZ4504)

SUM OF
MEASURED ISOTOPIC WEIGHT (SZ3294)

PROPAGATED ELEMENT ERROR (C3)

PROPAGATED ISOTOPE ERROR (C4)

LEVEL 3
SAME AS LEVEL 4 ABOVE
LEVEL 2
SAME AS LEVEL 4 ABOVE
SUM OF
BOOK BALANCE - ELEMENT WEIGHT (QP4790)

SUM OF
BOOK BALANCE - ISOTOPE WEIGHT (QP4284)

SUM OF
MEASURED ELEMENT WEIGHT (SZ4504)

SUM OF
MEASURED ISOTOPIC WEIGHT (SZ3294)

PROPAGATED ELEMENT ERROR (C5)

PROPAGATED ISOTOPE ERROR (C6)

TITLE

SHIPPER AND RECEIVER TRANSACTION VALUES BY FACILITY

PURPOSE

FOR EACH FACILITY A LISTING OF SHIPPER-RECEIVER VALUES FOR ELEMENT AND ISOTOPE WEIGHTS WILL BE GENERATED. THIS REPORT WILL BE USED BY ONMSS AND DIE. A SECOND LISTING WILL OUTPUT ONLY THOSE SHIPPER-RECEIVER VALUES THAT DO NOT LIE WITHIN THE REPORTED LIMITS OF ERROR.

FREQUENCY: MONTHLY, ON THE FIRST OF EACH MONTH. (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 25 PAGES

PARAMETERS

FACILITY NAME INPUT (P1)

CALCULATED RESULTS

CALCULATED ENRICHMENT (C1)

Y/N ACCEPTANCE DECISION (C2)

SELECTION

SELECT
SITE (MX)
WHERE
FACILITY NAME (MX3850)
IS EQUAL TO
FACILITY NAME INPUT (P1)

THEN VIA
HAS MATL BALANCE AREAS (MXRB)

MATL BAL AREAS (RBS)

THEN VIA
IS INCLUDED IN AN ACCOUNT ID (RBTM)

ACCOUNT ID (TM)

1)THEN VIA (TO GET ALL TRANSACTIONS WHERE ABOVE RIS WAS RECEIVER)
DEFINES TO POINT OF TRANSFER SERIES (RBNXT)

TRANSFER SERIES (NXS)

THEN IF (TO GET THE SHIPPER)
DEFINES FROM POINT AS MATL BALANCE AREA (NXRBF)
EXISTS
THEN VIA
DEFINES FROM POINT AS MATL BALANCE AREA (NXRBF)

```
    MATERIAL BAL AREA                                                    (RB     )

  THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                                         (RBTM   )

    ACCOUNT ID                                                           (TM     )

  THEN VIA
    IS IN A SITE                                                         (RBMX   )

    SITE                                                                 (MX     )

  ELSE IF
    DEFINES FROM POINT AS COUNTRY FACILITY                               (NXRFF  )
      EXISTS
  THEN VIA
    DEFINES FROM POINT AS COUNTRY FACILITY                               (NXRFF  )

    FOREIGN FACILITY                                                     (RF     )

  THEN VIA
    BELONGS TO COUNTRY                                                   (RFMC   )

    COUNTRY                                                              (MC     )

A)THEN IF
    HAS SHIPPER/RECEIVER PAIRS                                           (NXKX   )
      EXISTS
  THEN VIA
    HAS SHIPPER/RECEIVER PAIRS                                           (NXKX   )

    SHIP/REC PAIRS                                                       (KXS    )

  WHERE
    DATE SHIPPED                                                         (KX3205)
      OR
    DATE RECEIVED                                                        (KX1402)
      IS LESS THAN REPORT DATE(1ST OF THE MONTH)
     AND GREATER THAN OR EQUAL TO LAST REPORT DATE(1ST OF LAST MONTH)
  THEN VIA
    HAS TRANSACTION BATCHES                                              (KXKQ   )

    TRANSACTION BATCHES                                                  (KQS    )

  THEN VIA
    CONTAINS TRANSACTION CONSTITUENTS                                    (KQGL   )

    TRANS CONSTITUENTS                                                   (GLS    )

A1)THEN IF  (TO GET NONMEASURED TRANSACTIONS AND ASSOCIATED MATL TYPE)
    TYPE OF QUANTITY                                                     (GL1346)
      IS EQUAL TO "NONMEASURED"
  THEN VIA
    IS AMOUNT OF AN NRC RANGE                                            (FTRV   )

    NRC RANGE                                                            (RV     )

  THEN VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                                (RVZJ   )
```

```
    NRC BALANCE MATERIAL                                              (ZJ     )

A2)ELSE VIA (TO GET SHIPPER'S MEASURED VALUE  AND MATL TYPE)
    MAY HAVE A SHIPPER MEASURED VALUE                                 (GLSZS  )

    VALUE                                                             (SZ     )

  THEN VIA
    HAS AN ASSOCIATED MEASUREMENT LIMIT                               (SZPL   )

    MEASUREMENT LIMIT                                                 (PL     )

  THEN VIA 1)
    APPLIES TO A KEY MEASUREMENT POINT                                (PLPB   )

    KEY MEAS POINT                                                    (PB     )

  THEN VIA 2)
    IS IN TERMS OF AN NRC BALANCE MATERIAL                            (PLZJ   )

    NRC BALANCE MATERIAL                                              (ZJ     )

  THEN VIA
    HAS NRC RANGES                                                    (ZJRV   )

    NRC RANGE                                                         (RV     )

  WHERE
    CALCULATED ENRICHMENT                                             (C)     )
      AS A FUNCTION OF
    MEASURED ELEMENT WEIGHT                                           (SZ4504)

    MEASURED ISOTOPIC WEIGHT                                          (SZ3294)
      IS GREATER THAN OR EQUAL TO
    BEGINNING ENRICHMENT                                              (RV2567)
      AND LESS THAN OR EQUAL TO
    ENDING ENRICHMENT                                                 (RV2964)

  THEN IF
    MAY BE THE VALUE OF AN ITEM                                       (SZCF   )
      EXISTS
  THEN VIA
    MAY BE THE VALUE OF AN ITEM                                       (SZCF   )

    ITEM                                                              (CF     )

  THEN VIA (TO GET RECEIVER'S MEASURED VALUE  AND MATL TYPE)
    MAY HAVE A RECEIVER MEASURED VALUE                                (GLSZR  )

    VALUE                                                             (SZ     )

  THEN VIA
    HAS AN ASSOCIATED MEASUREMENT LIMIT                               (SZPL   )

    MEASUREMENT LIMIT                                                 (PL     )
    THEN VIA
    IS IN TERMS OF AN NRC BALANCE MATERIAL                            (PLZJ   )
```

```
    NRC BALANCE MATERIAL                                          (ZJ     )

  THEN VIA
    HAS NRC RANGES                                                (ZJRV   )

    NRC RANGE                                                     (RV     )

  WHERE
    CALCULATED ENRICHMENT                                         (CI     )
      AS A FUNCTION OF
    MEASURED ELEMENT WEIGHT                                       (SZ4504)

    MEASURED ISOTOPIC WEIGHT                                      (SZ3294)
      IS GREATER THAN OR EQUAL TO
    BEGINNING ENRICHMENT                                          (RV2567)
      AND LESS THAN OR EQUAL TO
    ENDING ENRICHMENT                                             (RV2964)

  THEN IF
    MAY BE THE VALUE OF AN ITEM                                   (SZCF   )
      EXISTS
  THEN VIA
    MAY BE THE VALUE OF AN ITEM                                   (SZCF   )

    ITEM                                                          (CF     )

2) THEN VIA (TO GET ALL TRANSACTIONS WHERE SELECTED RIS WAS SHIPPER)
    DEFINES'FROM'POINT OF TRANSFER SERIES                         (RBNXF  )

    TRANSFER SERIES                                               (NXS    )

  THEN IF  (TO GET THE RECEIVER)
    DEFINES TO POINT AS MATL BALANCE AREA                         (NXRBT  )
      EXISTS
  THEN VIA
    DEFINES TO POINT AS MATL BALANCE AREA                         (NXRBT  )

    MATERIAL BAL AREA                                             (RB     )

  THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                                  (RBTM   )

    ACCOUNT ID                                                    (TM     )

  THEN VIA
    IS IN A SITE                                                  (RBMX   )

    SITE                                                          (MX     )

  ELSE IF
    DEFINES TO POINT AS COUNTRY FACILITY                          (NXRFT  )
      EXISTS
  THEN VIA
    DEFINES TO POINT AS COUNTRY FACILITY                          (NXRFT  )

    FOREIGN FACILITY                                              (RF     )

  THEN VIA
    BELONGS TO COUNTRY                                            (RFMC   )
```

```
    COUNTRY                                                    (MC     )

  THEN CONTINUE FROM 1A
DISPLAY
-------
LEVEL 1
    FACILITY NAME                                              (MX3850)

    FACILITY ADDRESS                                           (MX8349)

LEVEL 2
    REPORTING IDENTIFICATION SYMBOL                            (TM6248)

    RIS SUFFIX                                                 (RB3520)

LEVEL 3  (SORT ALL TRANSACTIONS 'TO' THIS RIS BY MATL TYPE:)
    STANDARD MATERIAL TYPE CODE                                (RV2908)

    ELEMENT NAME                                               (ZJ1115)

    ISOTOPE NUMBER                                             (ZJ0356)

    MEASUREMENT UNITS                                          (ZJ2017)

    BEGINNING ENRICHMENT                                       (RV2567)

    ENDING ENRICHMENT                                          (RV2964)

LEVEL 4  (THE SHIPPER)
  VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                    (NXRBF )

    FACILITY NAME                                              (MX3850)

    FACILITY ADDRESS                                           (MX8349)

    REPORTING IDENTIFICATION SYMBOL                            (TM6248).

    RIS SUFFIX                                                 (RB3520)

OR VIA
    DEFINES FROM POINT AS COUNTRY FACILITY                     (NXRFF )

    COUNTRY ID CODE                                            (MC9724)

    NAME OF COUNTRY                                            (MC0891)

    COUNTRY RIS                                                (MC1958)

    FACILITY NAME                                              (RF5082)

    FACILITY RIS                                               (RF5819)

    FACILITY LOCATION                                          (RF4565)

    FACILITY PHONE NUMBER                                      (RF1005)

    FACILITY TYPE                                              (RF3256)
```

FACILITY ID (RF2920)

FACILITY IAEA CODE (RF3074)

PHYSICAL/GENERIC (RF6985)

OWNER NAME (RF3678)

OWNER ADDRESS (RF3404)

LEVEL 5

DATE SHIPPED (KX3205)

DATE RECEIVED (KX1402)

TRANSFER SERIAL NUMBER (KX1012)

LEVEL 6

TYPE OF INVENTORY CHANGE (KQ9141)

LINE NUMBER (KQ0627)

IDENTIFICATION (KQ8987)

NUMBER OF ITEMS (KQ4642)

GROSS WEIGHT (KQ8217)

NET WEIGHT (KQ4092)

LEVEL 7

COMPOSITION CODE (GL1896)

PRODUCT CODE (GL1577)

OWNER CODE (GL4570)

AND EITHER

NONMEASURED ELEMENT WEIGHT (FT4459)

NONMEASURED ISOTOPE WEIGHT (FT3535)

OR

MEASURED ELEMENT WEIGHT (SZ4504)

MEASURED ISOTOPIC WEIGHT (SZ3294)

ERROR (ISOTOPIC) (SZ2237)

ERROR (ELEMENT) (SZ3425)

ITEM NUMBER/SERIAL (CF0726)

VIA

MAY HAVE A SHIPPER MEASURED VALUE (GLSZS)

MEASURED ELEMENT WEIGHT (SZ4504)

MEASURED ISOTOPIC WEIGHT (SZ3294)

```
    ERROR (ISOTOPIC)                                                (SZ2237)

    ERROR (ELEMENT)                                                 (SZ3425)

    ITEM NUMBER/SERIAL                                              (CF0726)
      VIA
    MAY HAVE A RECEIVER MEASURED VALUE                              (GLSZR )

AND IN EITHER CASE
    Y/N ACCEPTANCE DECISION                                         (C2    )
      AS A FUNCTION OF
    ISOTOPE LIMIT OF ERROR                                          (PL1204)
      AND
    ELEMENT LIMIT OF ERROR                                          (PL0675)
      (LIMIT OF ERROR FOR THE MEASUREMENT PROCESS)
    KEY MEASUREMENT POINT ID                                        (P84130)

    MEASUREMENT DESCRIPTION                                         (PB1523)

    MEASURED ELEMENT WEIGHT                                         (SZ4504)

    MEASURED ISOTOPIC WEIGHT                                        (SZ3294)

    ERROR (ISOTOPIC)                                                (SZ2237)

    ERROR (ELEMENT)                                                 (SZ3425)
      TO DETERMINE IF WEIGHTS ARE WITHIN LIMIT OF ERROR
LEVEL 3  (SORT ALL TRANSACTIONS 'FROM' THIS RIS BY MATL TYPE)
    STANDARD MATERIAL TYPE CODE                                     (RV2908)

    ELEMENT NAME                                                    (ZJ1115)

    ISOTOPE NUMBER                                                  (ZJ0356)

    BEGINNING ENRICHMENT                                            (RV2567)

    ENDING ENRICHMENT                                               (RV2964)

LEVEL 4  (THE RECEIVER)
  VIA
    DEFINES TO POINT AS MATL BALANCE AREA                           (NXRBT )

    FACILITY NAME                                                   (MX3250)

    FACILITY ADDRESS                                                (MX8349)

    REPORTING IDENTIFICATION SYMBOL                                 (TM6248)

    RIS SUFFIX                                                      (RB3520)

OR VIA
    DEFINES TO POINT AS COUNTRY FACILITY                            (NXRFT )

    COUNTRY ID CODE                                                 (MC9724)

    NAME OF COUNTRY                                                 (MC0891)

    FACILITY NAME                                                   (RF5062)
```

```
    FACILITY RIS                                                    (RF5819)

LEVEL 5 THROUGH LEVEL 7 SAME AS PREVIOUSLY DEFINED
LEVEL 1  (FOR A LIST OF THOSE ABOVE TRANSFERS WHERE WEIGHTS OUTSIDE
          LIMIT OF ERROR)
  FOR ALL TRANSACTIONS WHERE
    Y/N ACCEPTANCE DECISION                                         (C2    )
      IS EQUAL TO "NO"
  DISPLAY ALL LEVELS 1 - 7 AS ABOVE
```

TITLE

HISTORICAL FACILITY SHIPPER-RECEIVER DIFFERENCES (SRD)

PURPOSE

THIS REPORT WILL PROVIDE A HISTORICAL RECORD OF THE TRANSACTION SRD'S FOR A SPECIFIC FACILITY. IT WILL BE USED TO DETERMINE WHETHER A FACILITY IS CONSISTENTLY REPORTING HIGH OR LOW SRD'S RATHER THAN A NORMAL DISTRIBUTION. ONNSS AND OIE WILL USE THIS REPORT.

FREQUENCY: UPON REQUEST (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 500 PAGES

PARAMETERS

RIS INPUT AN MBA FACILITY AS SHIPPER OR RECEIVER	(P1) (P2)
START DATE	(P3)
END DATE	(P4)

CALCULATIONS

CALCULATED ENRICHMENT AS A FUNCTION OF MEASURED ELEMENT WEIGHT AND MEASURED ISOTOPIC WEIGHT	(C1) (SZ4504) (SZ3294)
SHIPPER-RECEIVER DIFFERENCE (ELEMENT) AS A FUNCTION OF MEASURED ELEMENT WEIGHT OF RIS INPUT AND MEASURED ELEMENT WEIGHT OF OTHER(SHIPPER OR RECEIVER)RIS	(C2) (SZ4504) (P1) (SZ4504)
SHIPPER-RECEIVER DIFFERENCE (ISOTOPE) AS A FUNCTION OF MEASURED ISOTOPIC WEIGHT OF RIS INPUT AND MEASURED ISOTOPIC WEIGHT OF OTHER(SHIPPER OR RECEIVER) RIS	(C3) (SZ3294) (P1) (SZ3294)
PERCENT OF ELEMENT WEIGHT (% OF DIFF TO AS A FUNCTION OF SHIPPER-RECEIVER DIFFERENCE (ELEMENT) AND MEASURED ELEMENT WEIGHT OF	(C4) (C2) (SZ4504)

RIS INPUT (P1)

PERCENT OF ISOTOPE WIEGHT (C5)
AS A FUNCTION OF
SHIPPER-RECEIVER DIFFERENCE (ISOTOPE) (C3)
AND
MEASURED ISOTOPIC WEIGHT (SZ3294)
OF
RIS INPUT (P1)

NET SRD (ELEMENT) (C6)
AS A FUNCTION OF
SHIPPER-RECEIVER DIFFERENCE (ELEMENT) (C2)
TOTALS
NET SRD (ISOTOPE) (C7)
AS A FUNCTION OF
SHIPPER-RECEIVER DIFFERENCE (ISOTOPE) (C3)
TOTALS
MAXIMUM SRD PERCENT (ELEMENT) (C8)
AS A FUNCTION OF
PERCENT OF ELEMENT WEIGHT (% OF DIFF TO (C4)
AND
NET SRD (ELEMENT) (C6)

MINIMUM SRD PERCENT (ELEMENT) (C9)
AS A FUNCTION OF
PERCENT OF ELEMENT WEIGHT (% OF DIFF TO (C4)
AND
NET SRD (ELEMENT) (C6)

MAXIMUM SRD PERCENT (ISOTOPE) (C10)
AS A FUNCTION OF
PERCENT OF ISOTOPE WIEGHT (C5)
AND
NET SRD (ISOTOPE) (C7)

MINIMUM SRD PERCENT (ISOTOPE) (C11)
AS A FUNCTION OF
PERCENT OF ISOTOPE WIEGHT (C5)
AND
NET SRD (ISOTOPE) (C7)

SIGMA SRD PERCENT (ELEMENT) (C12)
AS A FUNCTION OF
MAXIMUM SRD PERCENT (ELEMENT) (C8)
OR
MINIMUM SRD PERCENT (ELEMENT) (C9)
AND NUMBER OF
SHIPPER-RECEIVER DIFFERENCE (ELEMENT) (C2)
VALUES ADDED TO GET
NET SRD (ELEMENT) (C6)

SIGMA SRD PERCENT (ISOTOPE) (C13)
AS A FUNCTION OF
MAXIMUM SRD PERCENT (ISOTOPE) (C10)
OR
MINIMUM SRD PERCENT (ISOTOPE) (C11)
AND NUMBER OF
SHIPPER-RECEIVER DIFFERENCE (ISOTOPE) (C3)

```
    VALUES ADDED TO GET
  NET SRD (ISOTOPE)                                              (C7     )

SELECTION
---------
  SELECT
    MATERIAL BAL AREA                                            (RB     )

  WHERE
    MATERIAL BAL AREA                                            (RB     )
      IS EQUAL TO
    RIS INPUT                                                    (P1     )

  THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                                 (RBTM   )

    ACCOUNT ID                                                   (TM     )

  THEN VIA
    IS IN A SITE                                                 (RBMX   )

    SITE                                                         (MX     )

1)THEN IF
    FACILITY AS SHIPPER OR RECEIVER                              (P2     )
      IS EQUAL TO "SHIPPER"
  THEN VIA
    DEFINES'FROM'POINT OF TRANSFER SERIES                        (RBNXF  )

    TRANSFER SERIES                                              (NXS    )

  THEN IF   (TO GET THE RECEIVERS)
    DEFINES TO POINT AS MATL BALANCE AREA                        (NXRBT  )
      EXISTS
  THEN VIA
    DEFINES TO POINT AS MATL BALANCE AREA                        (NXRBT  )

    MATERIAL BAL AREA                                            (RB     )
      WHERE
    MATERIAL BAL AREA                                            (RB     )
      IS NOT EQUAL TO
    RIS INPUT                                                    (P1     )

  THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                                 (RBTM   )

    ACCOUNT ID                                                   (TM     )

  THEN VIA
    IS IN A SITE                                                 (RBMX   )

    SITE                                                         (MX     )

  ELSE VIA
    DEFINES TO POINT AS COUNTRY FACILITY                         (NXRFT  )

    FOREIGN FACILITY                                             (RF     )

  THEN VIA
```

```
    BELONGS TO COUNTRY                                          (RFMC   )

    COUNTRY                                                     (MC     )

  THEN IF
  THEN VIA
  THEN VIA
    SHIP/REC PAIRS                                              (KXS    )
      WHERE
    DATE SHIPPED                                                (KX3205)
      IS GREATER THAN OR EQUAL TO
    START DATE                                                  (P3     )
      AND LESS THAN OR EQUAL TO
    END DATE                                                    (P4     )

  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                                  (NXKX   )

    SHIP/REC PAIRS                                              (KXS    )
      WHERE
    DATE SHIPPED                                                (KX3205)
      IS GREATER THAN OR EQUAL TO
    START DATE                                                  (P3     )
      AND LESS THAN OR EQUAL TO
    END DATE                                                    (P4     )

A)THEN VIA
    HAS TRANSACTION BATCHES                                     (KXKQ   )

    TRANSACTION BATCHES                                         (KQS    )

  THEN VIA
    CONTAINS TRANSACTION CONSTITUENTS                           (KQGL   )

    TRANS CONSTITUENTS                                          (GLS    )
      WHERE
    TYPE OF QUANTITY                                            (GL1346)
      IS EQUAL TO "MEASURED"
  THEN VIA   (TO GET SHIPPER'S VALUES)
    MAY HAVE A SHIPPER MEASURED VALUE                           (GLSZS  )

    VALUE                                                       (SZ     )

  THEN VIA
    HAS AN ASSOCIATED MEASUREMENT LIMIT                         (SZPL   )

    MEASUREMENT LIMIT                                           (PL     )

  THEN VIA
    IS IN TERMS OF AN NRC BALANCE MATERIAL                      (PLZJ   )

    NRC BALANCE MATERIAL                                        (ZJ     )

  THEN VIA
    HAS NRC RANGES                                              (ZJRV   )

    NRC RANGE                                                   (RV     )
      WHERE
    CALCULATED ENRICHMENT                                       (C1     )
```

```
    AS A FUNCTION OF
  MEASURED ELEMENT WEIGHT                                    (SZ4504)

  MEASURED ISOTOPIC WEIGHT                                   (SZ3294)
    IS GREATER THAN OR EQUAL TO
  BEGINNING ENRICHMENT                                       (RV2567)
    AND LESS THAN OR EQUAL TO
  ENDING ENRICHMENT                                          (RV2964)

THEN VIA
  APPLIES TO A KEY MEASUREMENT POINT                         (PLPB   )

  KEY MEAS POINT                                             (PB     )

THEN VIA   (TO GET RECEIVER'S VALUES)
  MAY HAVE A RECEIVER MEASURED VALUE                         (GLSZR  )

  VALUE                                                      (SZ     )

THEN VIA
  HAS AN ASSOCIATED MEASUREMENT LIMIT                        (SZPL   )

  MEASUREMENT LIMIT                                          (PL     )

THEN VIA
  IS IN TERMS OF AN NRC BALANCE MATERIAL                     (PLZJ   )

  NRC BALANCE MATERIAL                                       (ZJ     )

THEN VIA
  HAS NRC RANGES                                             (ZJRV   )

  NRC RANGE                                                  (RV     )
    WHERE
  CALCULATED ENRICHMENT                                      (C1     )
    AS A FUNCTION OF
  MEASURED ELEMENT WEIGHT                                    (SZ4504)

  MEASURED ISOTOPIC WEIGHT                                   (SZ3294)
    IS GREATER THAN OR EQUAL TO
  BEGINNING ENRICHMENT                                       (RV2567)
    AND LESS THAN OR EQUAL TO
  ENDING ENRICHMENT                                          (RV2964)

THEN VIA
  APPLIES TO A KEY MEASUREMENT POINT                         (PLPB   )

  KEY MEAS POINT                                             (PB     )

2)ELSE IF
  FACILITY AS SHIPPER OR RECEIVER                            (P2     )
    IS EQUAL TO "RECEIVER"
THEN VIA
  DEFINES 'TO' POINT OF TRANSFER SERIES                      (RBNXT  )

  TRANSFER SERIES                                            (NXS    )

THEN IF    (TO GET THE SHIPPERS)
  DEFINES FROM POINT AS MATL BALANCE AREA                    (NXRBF  )
```

```
    EXISTS
  THEN VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                    (NXRBF )

    MATERIAL BAL AREA                                          (RB    )
      WHERE
    MATERIAL BAL AREA                                          (RB    )
      IS NOT EQUAL TO
    RIS INPUT                                                  (P1    )

  THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                               (RBTM  )

    ACCOUNT ID                                                 (TM    )

  THEN VIA
    IS IN A SITE                                               (RBMX  )

    SITE                                                       (MX    )

  ELSE VIA
    DEFINES FROM POINT AS COUNTRY FACILITY                     (NXRFF )

    FOREIGN FACILITY                                           (RF    )

  THEN VIA
    BELONGS TO COUNTRY                                         (RFMC  )

    COUNTRY                                                    (MC    )

  THEN IF
  THEN VIA
  THEN VIA
    SHIP/REC PAIRS                                             (KXS   )
      WHERE
    DATE RECEIVED                                              (KX1402)
      IS GREATER THAN OR EQUAL TO
    START DATE                                                 (P3    )
      AND LESS THAN OR EQUAL TO
    END DATE                                                   (P4    )

  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                                 (NXKX  )

    SHIP/REC PAIRS                                             (KXS   )
      WHERE
    DATE RECEIVED                                              (KX1402)
      IS GREATER THAN OR EQUAL TO
    START DATE                                                 (P3    )
      AND LESS THAN OR EQUAL TO
    END DATE                                                   (P4    )

  THEN CONTINUE FROM 1A
DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                            (TM6248)

    RIS SUFFIX                                                 (RB3520)
```

```
      EQUAL TO
    RIS INPUT                                                    (P1     )

    FACILITY NAME                                                (MX3850)

    FACILITY ADDRESS                                             (MX8349)

    FACILITY AS SHIPPER OR RECEIVER                              (P2     )

LEVEL 2
    REPORTING IDENTIFICATION SYMBOL                              (TM6248)

    RIS SUFFIX                                                   (RB3520)
      NOT EQUAL TO
    RIS INPUT                                                    (P1     )

    FACILITY NAME                                                (MX3850)

    FACILITY ADDRESS                                             (MX8349)

OR
    COUNTRY ID CODE                                              (MC9724)

    NAME OF COUNTRY                                              (MC0891)

    FACILITY RIS                                                 (RF5819)

    FACILITY NAME                                                (RF5082)

LEVEL 3
    DATE SHIPPED                                                 (KX3205)
      OR
    DATE RECEIVED                                                (KX1402)

  DEPENDING ON
    FACILITY AS SHIPPER OR RECEIVER                              (P2     )

LEVEL 4     (MATL TYPE)
    STANDARD MATERIAL TYPE CODE                                  (RV2908)

    ELEMENT NAME                                                 (ZJ1115)

    ISOTOPE NUMBER                                               (ZJ0356)

    BEGINNING ENRICHMENT                                         (RV2567)

    ENDING ENRICHMENT                                            (RV2964)

LEVEL 5      (SHIPPER AND RECEIVER VALUES)
  VIA
    MAY HAVE A SHIPPER MEASURED VALUE                            (GLSZS  )
      IF
    FACILITY AS SHIPPER OR RECEIVER                              (P2     )
      IS EQUAL TO "SHIPPER"
  OR VIA
    MAY HAVE A RECEIVER MEASURED VALUE                           (GLSZR  )
      IF
    FACILITY AS SHIPPER OR RECEIVER                              (P2     )
      IS EQUAL TO "RECEIVER"
```

MEASURED ELEMENT WEIGHT (SZ4504)

MEASURED ISOTOPIC WEIGHT (SZ3294)

ERROR (ISOTOPIC) (SZ2237)

ERROR (ELEMENT) (SZ3425)

KEY MEASUREMENT POINT ID (PB4130)

THEN VIA
MAY HAVE A RECEIVER MEASURED VALUE (GLSZR)
IF
FACILITY AS SHIPPER OR RECEIVER (P2)
IS EQUAL TO "SHIPPER"
OR VIA
MAY HAVE A SHIPPER MEASURED VALUE (GLSZS)
IF
FACILITY AS SHIPPER OR RECEIVER (P2)
IS EQUAL TO "RECEIVER"
MEASURED ELEMENT WEIGHT (SZ4504)

MEASURED ISOTOPIC WEIGHT (SZ3294)

ERROR (ISOTOPIC) (SZ2237)

ERROR (ELEMENT) (SZ3425)

KEY MEASUREMENT POINT ID (PB4130)

SHIPPER-RECEIVER DIFFERENCE (ELEMENT) (C2)

SHIPPER-RECEIVER DIFFERENCE (ISOTOPE) (C3)

PERCENT OF ELEMENT WEIGHT (% OF DIFF TO (C4)

PERCENT OF ISOTOPE WIEGHT (C5)

LEVEL 2 (MATL TYPE AND TOTAL SRD)
STANDARD MATERIAL TYPE CODE (RV2908)

ELEMENT NAME (ZJ1115)

ISOTOPE NUMBER (ZJ0356)

BEGINNING ENRICHMENT (RV2567)

ENDING ENRICHMENT (RV2964)

NET SRD (ELEMENT) (C6)

NET SRD (ISOTOPE) (C7)

MAXIMUM SRD PERCENT (ELEMENT) (C8)

MINIMUM SRD PERCENT (ELEMENT) (C9)

MAXIMUM SRD PERCENT (ISOTOPE) (C10)

MINIMUM SRD PERCENT (ISOTOPE)	(C11)
SIGMA SRD PERCENT (ELEMENT)	(C12)
SIGMA SRD PERCENT (ISOTOPE)	(C13)

TITLE

SEALED SOURCE LOCATIONS

PURPOSE

THE LOCATIONS OF NRC LICENSED SEALED SOURCES WILL BE CONTAINED IN THIS REPORT WHICH WILL BE OF USE TO THE INSPECTORS AS WELL AS VARIOUS PERSONNEL IN ONMSS AND OIE. A SECOND REPORT OPTION WOULD IDENTIFY ALL SEALED SOURCE ITEMS BY OWNER.

FREQUENCY: UPON REQUEST (4/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 300 PAGES

PARAMETERS

REPORT OPTION (P1)

VALUES = "OWNER" OR "LOCATION"

RIS INPUT (P2)

IF OPTION = "OWNER", THIS IS AN OWNER RIS

CALCULATIONS

OVERDUE FOR LEAK CHECK? (C1)
YES OR NO AS A FUNCTION OF
FREQUENCY OF REQUIRED LEAK CHECK (CF4525)
AND
DATE OF CHECK (DF0874)

SELECTION

IF P1 IS EQUAL TO "LOCATION"
SELECT
ACCOUNT ID (TM)
WHERE
REPORTING IDENTIFICATION SYMBOL (TM6248)
IS EQUAL TO
RIS INPUT (P2)

THEN VIA
INCLUDES MATL BALANCE AREAS (TMRB)

MATL BAL AREAS (RBS)

THEN VIA
IS IN A SITE (RBMX)

SITE (MX)

THEN VIA
HAS MBA FORMULA LIMITS (RBCS)

MBA FORMULA LIMITS (CSS)

```
  THEN VIA
    IS IN TERMS OF MBA POSS LIMITS                                  (CSXC   )

    MBA POSSESSION LIMITS                                           (XCS    )

  THEN VIA
    DEFINES REPORTABLE INVENTORIES                                  (XCZV   )

    REPORTABLE INVENTORIE                                           (ZVS    )

  THEN VIA
    IS DEFINED BY AN NRC RANGE                                      (ZVRV   )

    NRC RANGE                                                       (RV     )

  THEN VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                           (RVZJ   )

    NRC BALANCE MATERIAL                                            (ZJ     )

  THEN VIA    (TO GET MOST RECENT CLOSEOUT DATE THIS MATL TYPE)
    HAS ASSOCIATED INVENTORY PERIODS                                (ZVQP   )

    INVENTORY PERIOD                                                (QP     )
      WHERE
    DATE                                                            (QP8085)
      IS MOST RECENT
  THEN VIA    (TO GET CURRENT INVENTORY OCCURRENCE)
    HAS ASSOCIATED INVENTORY PERIODS                                (ZVQP   )

    INVENTORY PERIOD                                                (QP     )
      WHERE
    DATE                                                            (QP8085)
      DOES NOT EXIST(IE. CURRENT)
1)THEN VIA    (TO GET CARRY-OVER SEALED SOURCE ITEMS)
    CROSS REF VALUES                                                (QPSZ   )

    VALUES                                                          (SZS    )

WHERE
    VIA
    MAY BE RECEIVER MEASURE OF TRANS CONSTIT                        (SZGLR  )

    TRANS CONSTITUENT                                               (GL     )

      WHERE VIA
    IS A PART OF TRANSACTION BATCH                                  (GLKQ   )

    TRANSACTION BATCH                                               (KQ     )

      THEN VIA
    IS IDENTIFIED WITH ONE S/R PAIR                                 (KQKX   )

    SHIPPER/RECEIVER PAIR                                           (KX     )
       WHERE
    DATE RECEIVED                                                   (KX1402)
       IS MOST RECENT,LESS THAN
    DATE                                                            (QP8085)
```

```
    COMPOSITION CODE                                                    (GL1896)
      IS EQUAL TO "481" OR "SEALED SOURCE"
  THEN VIA
    MAY BE THE VALUE OF AN ITEM                                         (SZCF   )

    ITEM                                                                (CF     )

  THEN VIA
    MAY HAVE LEAK CHECKS                                                (CFDF   )

    LEAK CHECK                                                          (DF     )
      WHERE
    DATE OF CHECK                                                       (DF0874)
       IS MOST RECENT
2)THEN VIA    (TO GET ALL SEALED SOURCE ITEMS SHIPPED SINCE LAST INVEN)
    CROSS REF DEBITED BY TRANSACTION CONSTIT                            (QPGLD  )

    TRANS CONSTITUENTS                                                  (GLS    )
      WHERE
    COMPOSITION CODE                                                    (GL1896)
      IS EQUAL TO "481" OR "SEALED SOURCE"
  THEN VIA
    MAY HAVE A SHIPPER MEASURED VALUE                                   (GLSZS  )

    VALUE                                                               (SZ     )

  THEN VIA
    MAY BE THE VALUE OF AN ITEM                                         (SZCF   )

    ITEM                                                                (CF     )



3)THEN VIA    (TO GET ALL SEALED SOURCE ITEMS RECEIVED SINCE LAST INVEN)
    CROSS REF CREDITED BY TRANSACTION CONSTI                            (QPGLC  )

    TRANS CONSTITUENTS                                                  (GLS    )
      WHERE
    COMPOSITION CODE                                                    (GL1896)
      IS EQUAL TO "481" OR "SEALED SOURCE"
  THEN VIA
    MAY HAVE A RECEIVER MEASURED VALUE                                  (GLSZR  )

    VALUE                                                               (SZ     )

  THEN VIA
    MAY BE THE VALUE OF AN ITEM                                         (SZCF   )

    ITEM                                                                (CF     )

  THEN VIA
    MAY HAVE LEAK CHECKS                                                (CFDF   )

    LEAK CHECK                                                          (DF     )
      WHERE
    DATE OF CHECK                                                       (DF0874)
```

```
      IS MOST RECENT

ELSE IF
    REPORT OPTION                                                    (P1     )
       IS EQUAL TO "OWNER"
THEN SELECT
    ITEMS                                                            (CFS    )

WHERE VIA
    HAS MEASURED VALUES                                              (CFSZ   )

    VALUES                                                           (SZS    )
       THEN VIA
    MAY BE RECEIVER MEASURE OF TRANS CONSTIT                         (SZGLR  )

    TRANS CONSTITUENTS                                               (GLS    )

A)
    COMPOSITION CODE                                                 (GL1896)
       IS EQUAL TO "481" OR "SEALED SOURCE"
AND WHERE VIA
    IS A PART OF TRANSACTION BATCH                                   (GLKQ   )

    TRANSACTION BATCH                                                (KQ     )
       THEN VIA
    IS IDENTIFIED WITH ONE S/R PAIR                                  (KQKX   )

    SHIPPER/RECEIVER PAIR                                            (KX     )

B)
    DATE RECEIVED                                                    (KX1402)
       IS MOST RECENT
AND WHERE VIA
    OR MAY BE SHIPPED FOR AN OWNER'S ACCOUNT                         (KXTM   )

C)
    REPORTING IDENTIFICATION SYMBOL                                  (TM6248)
       IS EQUAL TO
    RIS INPUT                                                        (P2     )

OR WHERE VIA
    MAY BE SHIPPED FOR AN OWNER                                      (KXVD   )

D)
    OWNER RIS (IF ANY)                                               (VD3718)
       IS EQUAL TO
    RIS INPUT                                                        (P2     )

THEN FOR EACH SELECTED
    ITEM                                                             (CF     )

THEN VIA
    MAY HAVE LEAK CHECKS                                             (CFDF   )

    LEAK CHECK                                                       (DF     )
       WHERE
    DATE OF CHECK                                                    (DF0874)
       IS MOST RECENT
THEN VIA THE SELECTED
```

```
    HAS MEASURED VALUES                                          (CFSZ   )

    VALUE                                                        (SZ     )
       THEN VIA THE SELECTED
    MAY BE RECEIVER MEASURE OF TRANS CONSTIT                     (SZGLR  )

    TRANS CONSTITUENT                                            (GL     )
       THEN VIA
    FALLS INTO NRC RANGE                                         (GLRV   )

    NRC RANGE                                                    (RV     )
       THEN VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                        (RVZJ   )

    NRC BALANCE MATERIAL                                         (ZJ     )
       THEN VIA
    IS A PART OF TRANSACTION BATCH                               (GLKQ   )

    TRANSACTION BATCH                                            (KQ     )
       THEN VIA
    IS IDENTIFIED WITH ONE S/R PAIR                              (KQKX   )

    SHIPPER/RECEIVER PAIR                                        (KX     )
       THEN VIA THE EXISTING
    OR MAY BE SHIPPED FOR AN OWNER'S ACCOUNT                     (KXTM   )
       OR
    MAY BE SHIPPED FOR AN OWNER                                  (KXVD   )
       THE APPROPRIATE
    ACCOUNT ID                                                   (TM     )
       THEN VIA
    MAY HAVE AN OWNER                                            (TMVD   )

    OWNER                                                        (VD     )
       OR THE APPROPRIATE
    OWNER                                                        (VD     )

DISPLAY
-------
LEVEL 1
IF
    REPORT OPTION                                                (P1     )
       IS EQUAL TO "OWNER"
    OWNER RIS (IF ANY)                                           (VD3718)

    OWNER NAME                                                   (VD2728)

    OWNER ADDRESS                                                (VD6897)

    REPORTING IDENTIFICATION SYMBOL                              (TM6248)
       (IF APPLICABLE)
ELSE IF
    REPORT OPTION                                                (P1     )
       IS EQUAL TO "LOCATION"
    REPORTING IDENTIFICATION SYMBOL                              (TM6248)

LEVEL 2
IF
    REPORT OPTION                                                (P1     )
       IS EQUAL TO "LOCATION"
```

```
    RIS SUFFIX                                                    (RB3520)

    FACILITY NAME                                                 (MX3850)

    FACILITY ADDRESS                                              (MX8349)

LEVEL 3
    STANDARD MATERIAL TYPE CODE                                   (RV2908)

    ELEMENT NAME                                                  (ZJ1115)

    ISOTOPE NUMBER                                                (ZJ0356)

    BEGINNING ENRICHMENT                                          (RV2567)

    ENDING ENRICHMENT                                             (RV2964)

LEVEL 4       (NOT PRINTED-- ALL CARRY-OVER SEALED SOURCE ITEMS)
IF
    REPORT OPTION                                                 (P1    )
       IS EQUAL TO 'LOCATION'
    ITEM NUMBER/SERIAL                                            (CF0725)

    DATE OF MANUFACTURE                                           (CF3784)

    MANUFACTURER                                                  (CF2479)

    OWNER CODE                                                    (GL4570)

    FREQUENCY OF REQUIRED LEAK CHECK                              (CF4525)

    DATE OF CHECK                                                 (DF0874)

    STATUS                                                        (DF0378)

    ACTION TAKEN                                                  (DF0291)

LEVEL 4       (NOT PRINTED--ALL ITEMS RECEIVED DURING THIS INVEN PERIOD
IF
    REPORT OPTION                                                 (P1    )
       IS EQUAL TO 'LOCATION'
  SAME AS LEVEL 4 ABOVE
LEVEL 4       (NOT PRINTED--ALL ITEMS SHIPPED DURING THIS INVEN PERIOD)
IF
    REPORT OPTION                                                 (P1    )
       IS EQUAL TO 'LOCATION'
    ITEM NUMBER/SERIAL                                            (CF0726)

    DATE OF MANUFACTURE                                           (CF3784)

    MANUFACTURER                                                  (CF2479)

    OWNER CODE                                                    (GL4570)

LEVEL 4       (ACTUAL SEALED SOURCE ITEMS)
IN EITHER CASE
    ITEM NUMBER/SERIAL                                            (CF0726)

    DATE OF MANUFACTURE                                           (CF3784)
```

MANUFACTURER (CF2479)

FREQUENCY OF REQUIRED LEAK CHECK (CF4525)

OWNER CODE (GL4570)

DATE OF CHECK (DF0874)

STATUS (DF0378)

ACTION TAKEN (DF0291)

OVERDUE FOR LEAK CHECK? (C1)

PROCESSING CONSIDERATIONS

TO ARRIVE AT THE LIST OF SEALED SOURCE ITEMS ACTUALLY AT A SITE FIRST RETRIEVE ALL CARRY-OVER SEALED SOURCE ITEMS, ADD ALL SEALED SOURCE ITEMS RECEIVED DURING THIS INVENTORY PERIOD, AND SUBTRACT THOSE SHIPPED.

TITLE

REPORTING ERRORS

PURPOSE

RECORDS OF ERRORS AND THEIR SOURCE WILL BE KEPT. THIS REPORT WILL PROVIDE A SUMMARY LISTING OF ISIS-DETECTED REPORTING ERRORS BY RIS AND BY ERROR CODE AND CALCULATE AVERAGE TIME FOR CORRECTION. IT IS EXPECTED THAT THIS REPORT WILL BE USED BY DIE, ONMSS, ONRR(REACTORS), AND ONRR(RESEARCH).

FREQUENCY: FIRST OF EACH MONTH. (12/YR)

TURN-AROUND: OVERNIGHT

LENGHT: APPROX. 25 PAGES

PARAMETERS

REPORT TYPE	(P1)
VALUES = "BY RIS" OR "BY ERROR CODE"	

CALCULATED RESULTS

NUMBER OF REPORTING ERRORS	(C1)
- ON A GIVEN TRANSACTION	
NUMBER OF UNCORRECTED ERRORS	(C2)
- ON A GIVEN TRANSACTION	
AVG TIME TO CORRECT ERROR	(C3)
- ON A GIVEN TRANSACTION	
AS A FUNCTION OF	
DATE OF CAPTURE	(PF4356)
AND	
NUMBER OF REPORTING ERRORS	(C1)
AND	
NUMBER OF UNCORRECTED ERRORS	(C2)
TOTAL NO. OF REPORTING ERRORS	(C4)
- FOR A GIVEN RIS THIS MONTH	
AS A FUNCTION OF	
NUMBER OF REPORTING ERRORS	(C1)
TOTAL NO. OF UNCORRECTED ERRORS	(C5)
- FOR A GIVEN RIS THIS MONTH	
AS A FUNCTION OF	
NUMBER OF UNCORRECTED ERRORS	(C2)
OVERALL AVG TIME TO CORRECT ERROR	(C6)
- FOR A GIVEN RIS THIS MONTH	
AS A FUNCTION OF	
AVG TIME TO CORRECT ERROR	(C3)
TIME TO CORRECT ERROR	(C7)
- FOR A GIVEN ERROR ON A GIVEN TRANSACTION	
AS A FUNCTION OF	
DATE OF CAPTURE	(PF4356)
AVR TIME TO CORRECT ERROR	(C8)

```
      - FOR A GIVEN ERROR TYPE ON ALL TRANSTNS
      AS A FUNCTION OF
    OVERALL AVG TIME TO CORRECT ERROR                              (C6     )

SELECTION
---------
SELECT
    MATL BAL AREAS                                                 (RBS    )

  THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                                   (RBTM   )

    ACCOUNT ID                                                     (TM     )

  THEN VIA
    IS IN A SITE                                                   (RBMX   )

    SITE                                                           (MX     )

1)THEN VIA        (SHIPPER)
    DEFINES'FROM'POINT OF TRANSFER SERIES                          (RBNXF  )

    TRANSFER SERIES                                                (NXS    )

  THEN IF
  THEN VIA
  THEN VIA
    SHIP/REC PAIRS                                                 (KXS    )
      WHERE
A)
    DATE SHIPPED                                                   (KX3205)
      OR
    DATE RECEIVED                                                  (KX1402)
      IS LESS THAN TODAY'S DATE(1ST OF MONTH) AND GREATER
     THAN OR EQUAL TO THE 1ST OF LAST MONTH
  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                                     (NXKX   )

    SHIP/REC PAIRS                                                 (KXS    )
      WHERE
A)
    DATE SHIPPED                                                   (KX3205)
      OR
    DATE RECEIVED                                                  (KX1402)
      IS LESS THAN TODAY'S DATE(1ST OF MONTH) AND GREATER
     THAN OR EQUAL TO THE 1ST OF LAST MONTH
AND WHERE VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                           (KXPFS  )

    MAT ACCTG TRANSACTION                                          (PF     )
   WHERE
    ACTION DATE                                                    (PF0638)
       IS MOST RECENT. THEN VIA
    MAY HAVE CORRECTION SEQUENCE                                   (PFMB   )

    CORRECTION SEQUENCE                                            (MB     )
   THEN VIA
    APPLIES TO MATL ACCTG TRANACTIONS                              (MBPF   )
```

```
    MAT ACCTG TRANSACTION                                          (PF     )
      WHERE
    ACTION DATE                                                    (PF0638)
       IS MOST RECENT
B) THE MOST RECENT
    MAT ACCTG TRANSACTION                                          (PF     )
      VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                           (KXPFS  )
      IS GREATER THAN MOST RECENT
    MAT ACCTG TRANSACTION                                          (PF     )
      VIA
    APPLIES TO MATL ACCTG TRANACTIONS                              (MBPF   )

THEN VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                           (KXPFS  )

    MAT ACCT TRANSACTIONS                                          (PFS    )
      IN ORDER BY
    ACTION DATE                                                    (PF0638)

THEN VIA
    MAY HAVE ERRORS                                                (PFVS   )

    ERRORS                                                         (VSS    )

  THEN VIA
    HAS LINE ITEMS                                                 (PFHN   )

    LINE ITEMS                                                     (HNS    )

2)THEN VIA
    DEFINES'TO'POINT OF TRANSFER SERIES                            (RBNXT  )
      (RECEIVER)
    TRANSFER SERIES                                                (NXS    )

  THEN IF
  THEN VIA
  THEN VIA
    SHIP/REC PAIRS                                                 (KXS    )
      WHERE
A)
    DATE SHIPPED                                                   (KX3205)
      OR
    DATE RECEIVED                                                  (KX1402)
      IS LESS THAN TODAY'S DATE(1ST OF MONTH) AND GREATER
     THAN OR EQUAL TO 1ST OF LAST MONTH

  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                                     (NXKX   )

    SHIP/REC PAIRS                                                 (KXS    )
      WHERE
A)
    DATE SHIPPED                                                   (KX3205)
      OR
    DATE RECEIVED                                                  (KX1402)
      IS LESS THAN TODAY'S DATE(1ST OF MONTH) AND GREATER
     THAN OR EQUAL TO 1ST OF LAST MONTH
```

```
AND WHERE VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                    (KXPFR )

    MAT ACCTG TRANSACTION                                    (PF    )
     WHERE
    ACTION DATE                                              (PF0638)
     IS MOST RECENT. THEN VIA
    MAY HAVE CORRECTION SEQUENCE                             (PFMB  )

    CORRECTION SEQUENCE                                      (MB    )
     THEN VIA
    APPLIES TO MATL ACCTG TRANACTIONS                        (MBPF  )

    MAT ACCTG TRANSACTION                                    (PF    )
     WHERE
    ACTION DATE                                              (PF0638)
     IS MOST RECENT
B) THE MOST RECENT
    MAT ACCTG TRANSACTION                                    (PF    )
     VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                    (KXPFR )
     IS GREATER THAN MOST RECENT
    MAT ACCTG TRANSACTION                                    (PF    )
     VIA
    APPLIES TO MATL ACCTG TRANACTIONS                        (MBPF  )

THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                    (KXPFR )

    MAT ACCT TRANSACTIONS                                    (PFS   )
      IN ORDER BY
    ACTION DATE                                              (PF0638)

  THEN VIA
    MAY HAVE ERRORS                                          (PFVS  )

    ERRORS                                                   (VSS   )

  THEN VIA
    HAS LINE ITEMS                                           (PFHN  )

    LINE ITEMS                                               (HNS   )

DISPLAY
-------
IF P1 IS EQUAL TO "BY RIS" THEN
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                          (TM6248)

    RIS SUFFIX                                               (RB3520)

    FACILITY NAME                                            (MX3850)

    FACILITY ADDRESS                                         (MX8349)

LEVEL 2
    DATE SHIPPED                                             (KX3205)
```



```
    DATE RECEIVED                                            (KX1402)
```

```
    TRANSACTION NUMBER                                          (PF2530)

    NUMBER OF REPORTING ERRORS                                  (C1    )

    AVG TIME TO CORRECT ERROR                                   (C3    )

    NUMBER OF UNCORRECTED ERRORS                                (C2    )

LEVEL 3     (FOR EACH UNCORRECTED ERROR)
    ERROR CODE                                                  (VS1292)

    COMMENTS GENERATED BY EDIT PROGRAM                          (VS4273)

    LINE IDENTIFICATION - 741                                   (VS2699)

LEVEL 1
    TOTAL NO. OF REPORTING ERRORS                               (C4    )

    OVERALL AVG TIME TO CORRECT ERROR                           (C6    )

    TOTAL NO. OF UNCORRECTED ERRORS                             (C5    )

LEVEL 2     (FOR EACH UNCORRECTED ERROR)
    ERROR CODE                                                  (VS1292)

    COMMENTS GENERATED BY EDIT PROGRAM                          (VS4273)

    LINE IDENTIFICATION - 741                                   (VS2699)

ELSE IF
    REPORT TYPE                                                 (P1    )
       IS EQUAL TO "BY ERROR CODE"
LEVEL 1    (FOR EACH ERROR)
    ERROR CODE                                                  (VS1292)

    COMMENTS GENERATED BY EDIT PROGRAM                          (VS4273)

    AVR TIME TO CORRECT ERROR                                   (C8    )

LEVEL 2
    REPORTING IDENTIFICATION SYMBOL                             (TM6248)

    RIS SUFFIX                                                  (RB3520)

    FACILITY NAME                                               (MX3850)

    FACILITY ADDRESS                                            (MX8349)

LEVEL 3
    DATE SHIPPED                                                (KX3205)

    DATE RECEIVED                                               (KX1402)

    TRANSACTION NUMBER                                          (PF2530)

    LINE IDENTIFICATION - 741                                   (VS2699)
```



```
    TIME TO CORRECT ERROR                                       (C7    )
```

PROCESSING NOTES

GET: ERRORS(X OF THEM) LN ORIGINAL MATL TRANS REPORT
COMPARE: LINE NUMBERS AND BOX IDS ON FIRST IN CORRECTION SEQUENCE
TO LINE NUMBER REFERENCE ASSOCIATED WITH EACH ABOVE ERROR
ASSUME: IF LINE NUMBERS CORRESPOND, THAT ERROR WAS CORRECTED(Y OF THEM
ANY ERRORS THAT WERE NOT REFERENCED BY LINE NUMBER REMAIN
UNCORRECTED. LINE NUMBER REFERENCES THAT HAVE NOTHING TO DO
WITH ISIS-IDENTIFIED ERRORS ARE IGNORED FOR THESE PURPOSES.
GET: ERRORS(Z OF THEM) ON (ABOVE) FIRST IN CORRECTION SEQUENCE
COMPARE: LINE NUMBERS AND BOX IDS ON SECOND IN CORRECTION SEQUENCE
TO...
ADD: X+Z=NUMBER OF REPORTING ERRORS
SUBTRACT: (X+Z)-Y-... = NUMBER OF UNCORRECTED ERRORS

TITLE

MRA POSSESSION LIMIT VIOLATIONS

PURPOSE

THIS REPORT DISPLAYS THE APPROPRIATE ACCOUNTING STATUS OF EACH MRA(ORIGINALLY EQUATES TO SITE OR FACILITY) FOUND TO BE IN VIOLATION OF ITS POSSESSION LIMITS. (FOR USE BY OIE AND UNMSS)

FREQUENCY: DAILY OR UPON REQUEST (50/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

NONE

CALCULATED RESULTS

SUM OF ELEMENT WEIGHTS	(C1)
AS A FUNCTION OF	
BOOK BALANCE - ELEMENT WEIGHT	(QP4790)
SUM OF ISOTOPE WEIGHTS	(C2)
AS A FUNCTION OF	
BOOK BALANCE - ISOTOPE WEIGHT	(QP4284)
FORMULA WEIGHT	(C3)
AS A FUNCTION OF	
ELEMENT NAME	(ZJ1115)
AND	
ISOTOPE NUMBER	(ZJ0356)
AND	
BOOK BALANCE - ELEMENT WEIGHT	(QP4790)
AND	
BOOK BALANCE - ISOTOPE WEIGHT	(QP4284)
PERCENT OF ELEMENT OVER LIMIT	(C4)
AS A FUNCTION OF	
SUM OF ELEMENT WEIGHTS	(C1)
AND	
MAXIMUM ELEMENT WEIGHT	(XC2776)
ELEMENT BOOK BAL ERROR IN %	(C5)
AS A FUNCTION OF	
SUM OF ELEMENT WEIGHTS	(C1)
AND	
MAXIMUM ELEMENT WEIGHT	(XC2776)
PERCENT OF ISOTOPE OVER LIMIT	(C6)
AS A FUNCTION OF	
SUM OF ISOTOPE WEIGHTS	(C2)
AND	
MAXIMUM ISOTOPE WEIGHT	(XC1083)
ISOTOPE BOOK BAL ERROR IN %	(C7)

```
    AS A FUNCTION OF
  SUM OF ISOTOPE WEIGHTS                                    (C2      )
    AND
  MAXIMUM ISOTOPE WEIGHT                                    (XC1083)

  PERCENT OVER LIMIT                                        (C8      )
    AS A FUNCTION OF
  FORMULA WEIGHT                                            (C3      )
    AND
  MAXIMUM EFFECTIVE KILOGRAMS                               (CS1270)

  BOOK BALANCE ERROR IN %                                   (C9      )
    AS A FUNCTION OF
  FORMULA WEIGHT                                            (C3      )
    AND
  MAXIMUM EFFECTIVE KILOGRAMS                               (CS1270)

SELECTION
---------
  SELECT
    MATL BAL AREAS                                          (RBS     )

WHERE
  VIA
    IS INCLUDED IN AN ACCOUNT ID                            (RBTM    )

    ACCOUNT ID                                              (TM      )

  THEN VIA
    IS IN A SITE                                            (RBMX    )

    SITE                                                    (MX      )

  THEN VIA
    HAS MBA FORMULA LIMITS                                  (RBCS    )

    MBA FORMULA LIMITS                                      (CSS     )

  THEN VIA
    IS DEFINED WITHIN LICENSE FORMULA LIMIT                 (CSFB    )

    LICENSE FORMULA LIMIT                                   (FB      )

  THEN VIA
    IS DEFINED IN A LICENSE TEXT                            (FBZT    )

    LICENSE                                                 (NH      )

  THEN VIA
    IS IN TERMS OF MBA POSS LIMITS                          (CSXC    )

    MBA POSSESSION LIMITS                                   (XCS     )

  THEN VIA
    APPLIES TO LICENSE POSSESSION LIMIT                     (XCZD    )

    LICENSE POSS LIMIT                                      (ZD      )
```



```
  THEN VIA
```

```
    IS DEFINED IN TERMS OF NRC BALANCE MATER                    (ZDZJ   )

    NRC BALANCE MATERIAL                                        (ZJ     )

  THEN VIA
    DEFINES REPORTABLE INVENTORIES                              (XCZV   )

    REPORTABLE INVENTORIE                                       (ZVS    )

  THEN VIA
    IS DEFINED BY AN NRC RANGE                                  (ZVRV   )

    NRC RANGE                                                   (RV     )

1)
    BEGINNING ENRICHMENT                                        (RV2567)
      IS GREATER THAN
    MAXIMUM ENRICHMENT                                          (XC4163)

  OR WHERE VIA
    HAS ASSOCIATED INVENTORY PERIODS                            (ZVQP   )

    INVENTORY PERIOD                                            (QP     )
      FOR CURRENT INVENTORY
2)   IF
    MAXIMUM ELEMENT WEIGHT                                      (XC2776)
                EXISTS THEN WHERE
    SUM OF ELEMENT WEIGHTS                                      (C1     )
      IS GREATER THAN
    MAXIMUM ELEMENT WEIGHT                                      (XC2776)
      OR WHERE
     IF
    MAXIMUM ISOTOPE WEIGHT                                      (XC1083)
                EXISTS
    SUM OF ISOTOPE WEIGHTS                                      (C2     )
      IS GREATER THAN
    MAXIMUM ISOTOPE WEIGHT                                      (XC1083)
      OR WHERE
3)
    FORMULA WEIGHT                                              (C3     )
      IS GREATER THAN
    MAXIMUM EFFECTIVE KILOGRAMS                                 (CS1270)

DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                             (TM6248)

    R1S SUFFIX                                                  (RB3520)

    FACILITY NAME                                               (MX3850)

    FACILITY ADDRESS                                            (MX8349)

LEVEL 2
    DOCKET NUMBER                                               (NH2112)

    LICENSE NUMBER                                              (NH2655)
```

LEVEL 3 (IF CONDITION (3) ABOVE)

MAXIMUM EFFECTIVE KILOGRAMS	(CS1270)
FORMULA WEIGHT	(C3)
PERCENT OVER LIMIT	(C8)
BOOK BALANCE ERROR IN %	(C9)

LEVEL 4 (IF CONDITION (1) OR (2) ABOVE)

ELEMENT NAME	(ZJ1115)
ISOTOPE NUMBER	(ZJ0356)
BEGINNING ENRICHMENT	(RV2567)
ENDING ENRICHMENT	(RV2964)
MAXIMUM ENRICHMENT	(XC4163)

AND

IF CONDITION (2) ABOVE

MAXIMUM ELEMENT WEIGHT	(XC2776)
MAXIMUM ISOTOPE WEIGHT	(XC1083)
SUM OF ELEMENT WEIGHTS	(C1)
PERCENT OF ELEMENT OVER LIMIT	(C4)
ELEMENT BOOK BAL ERROR IN %	(C5)
SUM OF ISOTOPE WEIGHTS	(C2)
PERCENT OF ISOTOPE OVER LIMIT	(C6)
ISOTOPE BOOK BAL ERROR IN %	(C7)

TITLE

GENERAL POSSESSION LIMIT VIOLATIONS

PURPOSE

THIS REPORT WILL DISPLAY THE APPROPRIATE ACCOUNTING SKETCHES OF EACH LICENSE FOUND TO BE IN VIOLATION OF ITS POSSESSION LIMITS. (FOR USE BY OIE AND ONMSS)

FREQUENCY: DAILY, OR UPON REQUEST. (50/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 20 PAGES

PARAMETERS

NONE

CALCULATED RESULTS

SUM OF ELEMENT WEIGHTS	(C1)
AS A FUNCTION OF	
BOOK BALANCE - ELEMENT WEIGHT	(QP4790)
SUM OF ISOTOPE WEIGHTS	(C2)
AS A FUNCTION OF	
BOOK BALANCE - ISOTOPE WEIGHT	(QP4284)
FORMULA WEIGHT	(C3)
AS A FUNCTION OF	
ELEMENT NAME	(ZJ1115)
AND	
ISOTOPE NUMBER	(ZJ0356)
AND	
BOOK BALANCE - ELEMENT WEIGHT	(QP4790)
AND	
BOOK BALANCE - ISOTOPE WEIGHT	(QP4284)
PERCENT OF ELEMENT OVER LIMIT	(C4)
AS A FUNCTION OF	
SUM OF ELEMENT WEIGHTS	(C1)
AND	
MAXIMUM ELEMENT WEIGHT	(XC2776)
ELEMENT BOOK BAL ERROR IN %	(C5)
AS A FUNCTION OF	
SUM OF ELEMENT WEIGHTS	(C1)
AND	
MAXIMUM ELEMENT WEIGHT	(XC2776)
PERCENT OF ISOTOPE OVER LIMIT	(C6)
AS A FUNCTION OF	
SUM OF ISOTOPE WEIGHTS	(C2)
AND	
MAXIMUM ISOTOPE WEIGHT	(XC1083)
ISOTOPE BOOK BAL ERROR IN %	(C7)

AS A FUNCTION OF
SUM OF ISOTOPE WEIGHTS (C2)
AND
MAXIMUM ISOTOPE WEIGHT (XC1083)

PERCENT OVER LIMIT (C8)
AS A FUNCTION OF
FORMULA WEIGHT (C3)
AND
MAXIMUM EFFECTIVE KILOGRAMS (CS1270)

BOOK BALANCE ERROR IN % (C9)
AS A FUNCTION OF
FORMULA WEIGHT (C3)
AND
MAXIMUM EFFECTIVE KILOGRAMS (CS1270)

SUM OF MRA ELEMENT WEIGHTS (C10)
AS A FUNCTION OF
SUM OF ELEMENT WEIGHTS (C1)

SUM OF MRA ISOTOPE WEIGHTS (C11)
AS A FUNCTION OF
SUM OF ISOTOPE WEIGHTS (C2)

LICENSE FORMULA WEIGHT (C12)
AS A FUNCTION OF
FORMULA WEIGHT (C3)

% OF TOTAL ELEMENT OVER LIMIT (C13)
AS A FUNCTION OF
SUM OF MRA ELEMENT WEIGHTS (C10)
AND
MAXIMUM ELEMENT WEIGHT (ZD0466)

TOTAL ELEM BOOK BAL ERROR IN % (C14)
AS A FUNCTION OF
SUM OF MRA ELEMENT WEIGHTS (C10)
AND
MAXIMUM ELEMENT WEIGHT (ZD0466)

% OF TOTAL ISOTOPE OVER LIMIT (C15)
AS A FUNCTION OF
SUM OF MRA ISOTOPE WEIGHTS (C11)
AND
MAXIMUM ISOTOPIC WEIGHT (ZD0576)

TOTAL ISOTOPE BOOK BAL ERROR IN % (C16)
AS A FUNCTION OF
SUM OF MRA ISOTOPE WEIGHTS (C11)
AND
MAXIMUM ISOTOPIC WEIGHT (ZD0576)

TOTAL % OVER LIMIT (C17)
AS A FUNCTION OF
LICENSE FORMULA WEIGHT (C12)
AND
MAXIMUM EFFECTIVE KILOGRAMS -221- (FB4965)

```
    TOTAL BOOK BALANCE ERROR IN %                                  (C18    )
      AS A FUNCTION OF
    LICENSE FORMULA WEIGHT                                         (C12    )
      AND
    MAXIMUM EFFECTIVE KILOGRAMS                                    (=B4965)

SELECTION
---------
  SELECT
    ACCOUNT IDS                                                    (TMS    )

WHERE
  VIA
    INCLUDES MATL BALANCE AREAS                                    (TMRB   )

    MATL BAL AREAS                                                 (RBS    )

  THEN VIA
    IS IN A SITE                                                   (RBMX   )

    SITE                                                           (MX     )

  THEN VIA
    HAS MBA FORMULA LIMITS                                         (RBCS   )

    MBA FORMULA LIMITS                                             (CSS    )

  THEN VIA
    IS DEFINED WITHIN LICENSE FORMULA LIMIT                        (CSFB   )

    LICENSE FORMULA LIMIT                                          (FB     )

  THEN VIA
    IS DEFINED IN A LICENSE TEXT                                   (FBZT   )

    LICENSE TEXT                                                   (ZT     )
      THEN VIA
    IS OWNED BY LICENSE                                            (ZTNH   )

    LICENSE                                                        (NH     )

  THEN VIA
    IS IN TERMS OF MBA POSS LIMITS                                 (CSXC   )

    MBA POSSESSION LIMITS                                          (XCS    )

  THEN VIA
    APPLIES TO LICENSE POSSESSION LIMIT                            (XCZD   )

    LICENSE POSS LIMIT                                             (ZD     )

  THEN VIA
    IS DEFINED IN TERMS OF NRC BALANCE MATER                       (ZDZJ   )

    NRC BALANCE MATERIAL                                           (ZJ     )

  THEN VIA
    DEFINES REPORTABLE INVENTORIES                                 (XCZV   )
```

```
    REPORTABLE INVENTORIE                                          (ZVS    )

  THEN VIA
    IS DEFINED BY AN NRC RANGE                                     (ZVRV   )

    NRC RANGE                                                      (RV     )

1)
    BEGINNING ENRICHMENT                                           (RV2567)
      IS GREATER THAN
    MAXIMUM ENRICHMENT                                             (XC4163)
      OR GREATER THAN
    MATERIAL ENRICHMENT                                            (ZD0495)

  OR WHERE VIA
    HAS ASSOCIATED INVENTORY PERIODS                               (ZVQP   )

    INVENTORY PERIOD                                               (QP     )
      FOR CURRENT INVENTORY
2)   IF
    MAXIMUM ELEMENT WEIGHT                                         (XC2776)
                EXISTS THEN WHERE
    SUM OF ELEMENT WEIGHTS                                         (C1     )
      IS GREATER THAN
    MAXIMUM ELEMENT WEIGHT                                         (XC2776)
      OR WHERE
     IF
    MAXIMUM ISOTOPE WEIGHT                                         (XC1083)
                EXISTS
    SUM OF ISOTOPE WEIGHTS                                         (C2     )
      IS GREATER THAN
    MAXIMUM ISOTOPE WEIGHT                                         (XC1083)

3)
    SUM OF MRA ELEMENT WEIGHTS                                     (C10    )
      IS GREATER THAN
    MAXIMUM ELEMENT WEIGHT                                         (ZD0466)
      OR WHERE
    SUM OF MRA ISOTOPE WEIGHTS                                     (C11    )
      IS GREATER THAN
    MAXIMUM ISOTOPIC WEIGHT                                        (ZD0576)

4)
    FORMULA WEIGHT                                                 (C3     )
      IS GREATER THAN
    MAXIMUM EFFECTIVE KILOGRAMS                                    (CS1270)

5)
    LICENSE FORMULA WEIGHT                                         (C12    )
      IS GREATER THAN
    MAXIMUM EFFECTIVE KILOGRAMS                                    (FB4965)

DISPLAY
-------
LEVEL 1
    DOCKET NUMBER                                                  (NH2112)

    LICENSE NUMBER                                                 (NH2655)
```

LEVEL 2 (IF CONDITION (5) ABOVE)
MAXIMUM EFFECTIVE KILOGRAMS (FB4965)

LICENSE FORMULA WEIGHT (C12)

TOTAL % OVER LIMIT (C17)

TOTAL BOOK BALANCE ERROR IN % (C18)

LEVEL 3 (IF CONDITION (1) OR (3) ABOVE)
ELEMENT NAME (ZJ1115)

ISOTOPE NUMBER (ZJ0356)

BEGINNING ENRICHMENT (RV2567)

ENDING ENRICHMENT (RV2964)

MATERIAL ENRICHMENT (ZD0495)
AND
IF CONDITION (3) ABOVE
MAXIMUM ELEMENT WEIGHT (ZD0466)

MAXIMUM ISOTOPIC WEIGHT (ZD0576)

SUM OF MRA ELEMENT WEIGHTS (C10)

SUM OF MRA ISOTOPE WEIGHTS (C11)

% OF TOTAL ELEMENT OVER LIMIT (C13)

TOTAL ELEM BOOK BAL ERROR IN % (C14)

% OF TOTAL ISOTOPE OVER LIMIT (C15)

TOTAL ISOTOPE BOOK BAL ERROR IN % (C16)

LEVEL 3
REPORTING IDENTIFICATION SYMBOL (IM6248)

RIS SUFFIX (RB3520)

FACILITY NAME (MX3850)

FACILITY ADDRESS (MX8349)

LEVEL 4 (IF CONDITION (4) ABOVE)
MAXIMUM EFFECTIVE KILOGRAMS (CS1270)

FORMULA WEIGHT (C3)

PERCENT OVER LIMIT (C8)

BOOK BALANCE ERROR IN % (C9)

LEVEL 5 (IF CONDITION (1) OR (2) ABOVE)
ELEMENT NAME (ZJ1115)

ISOTOPE NUMBER (ZJ0356)

BEGINNING ENRICHMENT	(RV2567)
ENDING ENRICHMENT	(RV2964)
MAXIMUM ENRICHMENT	(XC4163)
AND	
IF CONDITION (2) ABOVE	
MAXIMUM ELEMENT WEIGHT	(XC2776)
MAXIMUM ISOTOPE WEIGHT	(XC1083)
SUM OF ELEMENT WEIGHTS	(C1)
PERCENT OF ELEMENT OVER LIMIT	(C4)
ELEMENT BOOK BAL ERROR IN %	(C5)
SUM OF ISOTOPE WEIGHTS	(C2)
PERCENT OF ISOTOPE OVER LIMIT	(C6)
ISOTOPE BOOK BAL ERROR IN %	(C7)

TITLE

UNRESOLVED TRANSACTION ERRORS

PURPOSE

THIS REPORT LISTS FOR EACH RIS THE UNRESOLVED TRANSACTION ERRORS.
A DATE PARAMETER ALLOWS FOR TWO TYPES OF UNRESOLVED ERROR REPORTS:
1) YESTERDAY'S DATE, GENERATES LISTING OF PREVIOUS DAY'S ERRORS;
2) ANY OTHER PREVIOUS DATE, GENERATES CUMULATIVE ERROR REPORT
SINCE THAT DATE.

FREQUENCY: DAILY FOR A PREVIOUS DAY REPORT, ELSE UPON REQUEST.(500/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

DATE (P1)
AFTER WHICH ERRORS ARE TO BE LISTED (INCLUSIVE)

SELECTION

SELECT
MATL BAL AREAS (RBS)

THEN VIA
IS INCLUDED IN AN ACCOUNT ID (RBTM)

ACCOUNT ID (TM)

THEN VIA
IS IN A SITE (RBMX)

SITE (MX)

1)THEN VIA (SHIPPER)
DEFINES'FROM'POINT OF TRANSFER SERIES (RBNXF)

TRANSFER SERIES (NXS)

THEN IF
THEN VIA
THEN VIA
SHIP/REC PAIRS (KXS)
WHERE
A)
DATE SHIPPED (KX3205)
IS GREATER THAN OR EQUAL TO
DATE (P1)

ELSE VIA
HAS SHIPPER/RECEIVER PAIRS (NXKX)

SHIP/REC PAIRS (KXS)
WHERE
A)

```
    DATE SHIPPED                                                    (KX3205)
      IS GREATER THAN OR EQUAL TO
    DATE                                                            (P1    )

  AND IN EITHER CASE
      AND WHERE VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                            (KXPFS )

    MAT ACCTG TRANSACTION                                           (PF    )
      WHERE
    ACTION DATE                                                     (PF0638)
      IS MOST RECENT
   THEN VIA
    MAY HAVE CORRECTION SEQUENCE                                    (PFMB  )

    CORRECTION SEQUENCE                                             (MB    )
      THEN VIA
    APPLIES TO MATL ACCTG TRANACTIONS                               (MBPF  )

    MAT ACCTG TRANSACTION                                           (PF    )
      WHERE
    ACTION DATE                                                     (PF0638)
        IS MOST RECENT
B) THE MOST RECENT
    MAT ACCTG TRANSACTION                                           (PF    )

   VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                            (KXPFS )
      IS GREATER THAN THE MOST RECENT
    MAT ACCTG TRANSACTION                                           (PF    )
      VIA
    APPLIES TO MATL ACCTG TRANACTIONS                               (MBPF  )

  AND WHERE VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                            (KXPFS )

    MAT ACCT TRANSACTIONS                                           (PFS   )
      IN ORDER BY:
    ACTION DATE                                                     (PF0638)

  THEN VIA
    MAY HAVE ERRORS                                                 (PFVS  )

    ERRORS                                                          (VSS   )

  THEN VIA
    HAS LINE ITEMS                                                  (PFHN  )

    LINE ITEMS                                                      (HNS   )

C) ERRORS REMAIN UNCORRECTED. SEE PROCESSING NOTES.

2)THEN VIA
    DEFINES'TO'POINT OF TRANSFER SERIES                             (RBNXT )
      (RECEIVER)
    TRANSFER SERIES                                                 (NXS   )
```



```
  THEN IF
  THEN VIA
```

```
  THEN VIA
    SHIP/REC PAIRS                                          (KXS    )
      WHERE
A)
    DATE RECEIVED                                           (KX1402)
       IS GREATER THAN OR EQUAL TO
    DATE                                                    (P1     )


  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                              (NXKX   )

    SHIP/REC PAIRS                                          (KXS    )
      WHERE
A)
    DATE RECEIVED                                           (KX1402)
      IS GREATER THAN OR EQUAL TO
    DATE                                                    (P1     )

  AND WHERE VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                   (KXPFR  )

    MAT ACCTG TRANSACTION                                   (PF     )
     WHERE
    ACTION DATE                                             (PF0638)
     IS MOST RECENT
  THEN VIA
    MAY HAVE CORRECTION SEQUENCE                            (PFMB   )

    CORRECTION SEQUENCE                                     (MB     )
      THEN VIA
    APPLIES TO MATL ACCTG TRANACTIONS                       (MBPF   )

    MAT ACCTG TRANSACTION                                   (PF     )
     WHERE
    ACTION DATE                                             (PF0638)
         IS MOST RECENT
B) THE MOST RECENT
    MAT ACCTG TRANSACTION                                   (PF     )
     VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                   (KXPFR  )
     IS GREATER THAN MOST RECENT
    MAT ACCTG TRANSACTION                                   (PF     )
     VIA
    APPLIES TO MATL ACCTG TRANACTIONS                       (MBPF   )

  AND WHERE VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                   (KXPFR  )

    MAT ACCT TRANSACTIONS                                   (PFS    )
      IN ORDER BY:
    ACTION DATE                                             (PF0638)

THEN VIA
    MAY HAVE ERRORS                                         (PFVS   )

    ERRORS                                                  (VSS    )
```

THEN VIA
HAS LINE ITEMS (PFHN)

LINE ITEMS (HNS)

C) ERRORS REMAIN UNCORRECTED. SEE PROCESSING NOTES.

DISPLAY

LEVEL 1
REPORTING IDENTIFICATION SYMBOL (TM6248)

RIS SUFFIX (RB3520)

FACILITY NAME (MX3850)

FACILITY ADDRESS (MX8349)

LEVEL 2
DATE SHIPPED (KX3205)

RECEIVER FACILITY NAME - 741 (PF4807)

TRANSACTION NUMBER (PF2530)

LEVEL 3 (FOR EACH UNCORRECTED ERROR)
ERROR CODE (VS1292)

COMMENTS GENERATED BY EDIT PROGRAM (VS4273)

LINE IDENTIFICATION - 741 (VS2699)

LEVEL 2
DATE RECEIVED (KX1402)

SHIPPER FACILITY NAME - 741 (PF0242)

TRANSACTION NUMBER (PF2530)

LEVEL 3 (FOR EACH UNCORRECTED ERROR)
ERROR CODE (VS1292)

COMMENTS GENERATED BY EDIT PROGRAM (VS4273)

LINE IDENTIFICATION - 741 (VS2699)

PROCESSING CONSIDERATIONS

SEE R3107 (7.17)

TITLE

RANDOM SAMPLE OF TRANSACTIONS

PURPOSE

A RANDOM SAMPLE OF TRANSACTIONS FOR A FACILITY WILL BE GENERATED FOR USE BY INSPECTION PERSONNEL.

FREQUENCY: UPON REQUEST (400/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

RIS INPUT	(P1)
BEGIN DATE INCLUSIVE	(P2)
END DATE INCLUSIVE	(P3)
# OF RANDOM TRANSACTIONS	(P4)

CALCULATED RESULTS

TOTAL UNCORRECTED TRANSACTIONS	(C1)
TOTAL CORRECTED TRANSACTIONS	(C2)
TOTAL TRANSACTIONS	(C3)

SELECTION

SELECT	
MATERIAL BAL AREA WHERE	(RB)
RIS SUFFIX IS EQUAL TO	(RB3520)
RIS INPUT	(P1)
THEN VIA	
IS INCLUDED IN AN ACCOUNT ID	(RBTM)
ACCOUNT ID	(TM)
THEN VIA	
IS IN A SITE	(RBM
SITE	(MX ,
1)THEN VIA (SHIPPER)	
DEFINES'FROM'POINT OF TRANSFER SERIES	(RBNXF)
TRANSFER SERIES	(NXS)
THEN IF	

```
  THEN VIA
  THEN VIA
    SHIP/REC PAIRS                                          (KXS    )
      WHERE
A)
    DATE SHIPPED                                            (KX3205)
      IS GREATER THAN OR EQUAL TO
    BEGIN DATE                                              (P2     )
      AND LESS THAN OR EQUAL TO
    END DATE                                                (P3     )

  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                              (NXKX   )

    SHIP/REC PAIRS                                          (KXS    )
      WHERE
A)
    DATE SHIPPED                                            (KX3205)
      IS GREATER THAN OR EQUAL TO
    BEGIN DATE                                              (P2     )
      AND LESS THAN OR EQUAL TO
    END DATE                                                (P3     )

AND WHERE VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                    (KXPFS  )

    MAT ACCTG TRANSACTION                                   (PF     )
      WHERE
    ACTION DATE                                             (PF0638)
      IS MOST RECENT . THEN VIA
    MAY HAVE CORRECTION SEQUENCE                            (PFMB   )

    CORRECTION SEQUENCE                                     (MB     )
      THEN VIA
    APPLIES TO MATL ACCTG TRANACTIONS                       (MBPF   )

    MAT ACCTG TRANSACTION                                   (PF     )
       WHERE
    ACTION DATE                                             (PF0638)
       IS MOST RECENT.
B) THE MOST RECENT
    MAT ACCTG TRANSACTION                                   (PF     )
      VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                    (KXPFS  )
      IS GREATER THAN MOST RECENT
    MAT ACCTG TRANSACTION                                   (PF     )
      VIA
    APPLIES TO MATL ACCTG TRANACTIONS                       (MBPF   )

THEN VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                    (KXPFS  )

    MAT ACCT TRANSACTIONS                                   (PFS    )
      IN ORDER BY:
    ACTION DATE                                             (PF0638)

  THEN VIA
    MAY HAVE ERRORS                                         (PFVS   )
```

```
    ERRORS                                                    (VSS    )

  THEN VIA
    HAS LINE ITEMS                                            (PFHN   )

    LINE ITEMS                                                (HNS    )

2)THEN VIA
    DEFINES'TO'POINT OF TRANSFER SERIES                       (RBNXT  )
      (RECEIVER)
    TRANSFER SERIES                                           (NXS    )

  THEN IF
  THEN VIA
  THEN VIA
    SHIP/REC PAIRS                                            (KXS    )
      WHERE
A)
    DATE RECEIVED                                             (KX1402)
      IS GREATER THAN OR EQUAL TO
    BEGIN DATE                                                (P2     )
      AND LESS THAN OR EQUAL TO
    END DATE                                                  (P3     )

  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                                (NXKX   )

    SHIP/REC PAIRS                                            (KXS    )
      WHERE
A)
    DATE RECEIVED                                             (KX1402)
      IS GREATER THAN OR EQUAL TO
    BEGIN DATE                                                (P2     )
      AND LESS THAN OR EQUAL TO
    END DATE                                                  (P3     )

AND WHERE VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                     (KXPFR  )

    MAT ACCTG TRANSACTION                                     (PF     )
       WHERE
    ACTION DATE                                               (PF0638)
       IS MOST RECENT. THEN VIA
    MAY HAVE CORRECTION SEQUENCE                              (PFMB   )

    CORRECTION SEQUENCE                                       (MB     )
       THEN VIA
    APPLIES TO MATL ACCTG TRANACTIONS                         (MBPF   )

    MAT ACCTG TRANSACTION                                     (PF     )
       WHERE
    ACTION DATE                                               (PF0638)
       IS MOST RECENT.
B) THE MOST RECENT
    MAT ACCTG TRANSACTION                                     (PF     )
       VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                     (KXPFR  )
       IS GREATER THAN MOST RECENT
    MAT ACCTG TRANSACTION                                     (PF     )
```

```
      VIA
    APPLIES TO MATL ACCTG TRANACTIONS                          (MBPF   )

THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                      (KXPFR  )

    MAT ACCT TRANSACTIONS                                      (PFS    )
      IN ORDER BY:
    ACTION DATE                                                (PF0638)

  THEN VIA
    MAY HAVE ERRORS                                            (PFVS   )

    ERRORS                                                     (VSS    )

  THEN VIA
    HAS LINE ITEMS                                             (PFHN   )

    LINE ITEMS                                                 (HNS    )

3)THEN VIA        A RANDOM
    DEFINES'FROM'POINT OF TRANSFER SERIES                      (RBNXF  )
      OR
    DEFINES'TO'POINT OF TRANSFER SERIES                        (RBNXT  )

    TRANSFER SERIES                                            (NX     )

  THEN VIA        A RANDOM
    HAS SHIPPER/RECEIVER PAIRS                                 (NXKX   )

    SHIPPER/RECEIVER PAIR                                      (KX     )

  THEN IF
    DEFINES'FROM'POINT OF TRANSFER SERIES                      (RBNXF  )
      WAS TAKEN,
  THEN VIA        A RANDOM
    HAS A SHIPPER MATL ACCTG TRANSACTION                       (KXPFS  )

    MAT ACCTG TRANSACTION                                      (PF     )

  ELSE IF
    DEFINES'TO'POINT OF TRANSFER SERIES                        (RBNXT  )
      WAS TAKEN,
  THEN VIA        A RANDOM
    HAS A RECEIVER MATL ACCTG TRANSACTION                      (KXPFR  )

    MAT ACCTG TRANSACTION                                      (PF     )

  PERFORM 3) THE NUMBER OF TIMES INDICATED BY
    # OF RANDOM TRANSACTIONS                                  (P4     )

DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                            (TM6248)

    RIS SUFFIX                                                 (RB3520)

    FACILITY NAME                                              (MX3850)
```

FACILITY ADDRESS (MX8349)

TOTAL UNCORRECTED TRANSACTIONS (C1)

TOTAL CORRECTED TRANSACTIONS (C2)

TOTAL TRANSACTIONS (C3)

LEVEL 2

TRANSACTION TYPE (PF1408)

TRANSACTION NUMBER (PF2530)

ACTION DATE CODE (PF4048)

ACTION DATE (PF0638)

CORRECTION NUMBER (PF9262)

PROCESSING CONSIDERATIONS

1) IF THE ORIGINAL MAT HAD NO ISIS-IDENTIFIED ERRORS, AND SUBSEQUENT CORRECTIONS HAD NO ERRORS, THEN ADD 1 TO C3
2) THROUGH PROCESS DESCRIBED IN R3107 (7.17), IF THE MAT OR A CORRECTION STILL HAVE UNCORRECTED ERRORS, ADD 1 TO C1. IF THE MAT OR A CORRECTION HAD ERRORS, BUT ALL WERE CORRECTED, ADD 1 TO C2

TITLE

FACILITY-FACILITY TRANSACTION SUMMARY

PURPOSE

THIS REPORT WILL PROVIDE A SUMMARY OF THE FACILITY-FACILITY TRANSACTIONS ON A WEEKLY BASIS FOR EACH FACILITY. (USED BY DIE AND ONMSS)

FREQUENCY: WEEKLY(MONDAY), OR UPON REQUEST. (500/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 200 PAGES

PARAMETERS

ACCOUNT RIS	(P1)
BEGIN DATE	(P2)
END DATE	(P3)
LINE ITEM DATA? YES OR NO	(P4)

CALCULATED RESULTS

NUMBER OF CORRECTIONS	(C1)

SELECTION

SELECT	
ACCOUNT ID	(TM)
WHERE	
REPORTING IDENTIFICATION SYMBOL	(TM6248)
IS EQUAL TO	
ACCOUNT RIS	(P1)
THEN VIA	
INCLUDES MATL BALANCE AREAS	(TMRB)
MATL BAL AREAS	(RBS)
THEN VIA	
IS IN A SITE	(RBMX)
SITE .	(MX)
1)THEN VIA	
DEFINES'FROM'POINT OF TRANSFER SERIES	(RBNXF)
TRANSFER SERIES	(NXS)
WHERE VIA	
DEFINES TO POINT AS MATL BALANCE AREA	(NXRBT)
RIS SUFFIX	(RB3520)
IS NOT EQUAL TO	

```
  RIS SUFFIX                                                    (RB3520)

THEN IF
  DEFINES TO POINT AS MATL BALANCE AREA                         (NXRBT )
    EXISTS
THEN VIA
  DEFINES TO POINT AS MATL BALANCE AREA                         (NXRBT )

  MATERIAL BAL AREA                                             (RB    )

THEN VIA
  IS INCLUDED IN AN ACCOUNT ID                                  (RBTM  )

  ACCOUNT ID                                                    (TM    )

THEN VIA
  IS IN A SITE                                                  (RBMX  )

  SITE                                                          (MX    )

ELSE VIA
  DEFINES TO POINT AS COUNTRY FACILITY                          (NXRFT )

  FOREIGN FACILITY                                              (RF    )

THEN VIA
  BELONGS TO COUNTRY                                            (RFMC  )

  COUNTRY                                                       (MC    )

THEN VIA
  HAS SHIPPER/RECEIVER PAIRS                                    (NXKX  )

  SHIP/REC PAIRS                                                (KXS   )
    WHERE
  DATE SHIPPED                                                  (KX3205)
    IS GREATER THAN OR EQUAL TO
  BEGIN DATE                                                    (P2    )
    AND LESS THAN OR EQUAL TO
  END DATE                                                      (P3    )

THEN VIA
  HAS A SHIPPER MATL ACCTG TRANSACTION                          (KXPFS )

  MAT ACCT TRANSACTIONS                                         (PFS   )

THEN IF
  LINE ITEM DATA?                                               (P4    )
    IS EQUAL TO "YES"
THEN VIA
  HAS LINE ITEMS                                                (PFHN  )

  LINE ITEMS                                                    (HNS   )
    WHERE
  CORRECTION STATUS                                             (HN4922)
    IS EQUAL TO "ACTIVE"
THEN VIA
  HAS A RECEIVER MATL ACCTG TRANSACTION                         (KXPFR )
```

```
    MAT ACCT TRANSACTIONS                                    (PFS    )

  THEN IF
    LINE ITEM DATA?                                          (P4     )
      IS EQUAL TO "YES"
   1EN VIA
    HAS LINE ITEMS                                           (PFHN   )

    LINE ITEMS                                               (HNS    )
      WHERE
    CORRECTION STATUS                                        (HN4922)
      IS EQUAL TO "ACTIVE"
2)THEN VIA
    DEFINES'TO'POINT OF TRANSFER SERIES                      (RBNXT  )

    TRANSFER SERIES                                          (NXS    )
      WHERE VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                  (NXRBF  )

    RIS SUFFIX                                               (RB3520)
      IS NOT EQUAL TO
    RIS SUFFIX                                               (RB3520)

  THEN IF
    DEFINES FROM POINT AS MATL BALANCE AREA                  (NXRBF  )
      EXISTS
  THEN VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                  (NXRBF  )

    MATERIAL BAL AREA                                        (RB     )

  THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                             (RBTM   )

    ACCOUNT ID                                               (TM     )

  THEN VIA
    IS IN A SITE                                             (RBMX   )

    SITE                                                     (MX     )

  ELSE VIA
    DEFINES FROM POINT AS COUNTRY FACILITY                   (NXRFF  )

    FOREIGN FACILITY                                         (RF     )

  THEN VIA
    BELONGS TO COUNTRY                                       (RFMC   )

    COUNTRY                                                  (MC     )

  THEN VIA
    HAS SHIPPER/RECEIVER PAIRS                               (NXKX   )

    SHIP/REC PAIRS                                           (KXS    )
      WHERE
    DATE RECEIVED                                            (KX1402)
      IS GREATER THAN OR EQUAL TO
    BEGIN DATE                                               (P2     )
```

```
      AND LESS THAN OR EQUAL TO
    END DATE                                                    (P3     )

  THEN VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                        (KXPFS  )

    MAT ACCT TRANSACTIONS                                       (PFS    )

  THEN IF
    LINE ITEM DATA?                                             (P4     )
      IS EQUAL TO "YES"
  THEN VIA
    HAS LINE ITEMS                                              (PFHN   )

    LINE ITEMS                                                  (HNS    )
      WHERE
    CORRECTION STATUS                                           (HN4922)
      IS EQUAL TO "ACTIVE"
  THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                       (KXPFR  )

    MAT ACCT TRANSACTIONS                                       (PFS    )

  THEN IF
    LINE ITEM DATA?                                             (P4     )
      IS EQUAL TO "YES"
  THEN VIA
    HAS LINE ITEMS                                              (PFHN   )

    LINE ITEMS                                                  (HNS    )
      WHERE
    CORRECTION STATUS                                           (HN4922)
      IS EQUAL TO "ACTIVE"
DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                             (T46248)

LEVEL 2          (FOR EACH MBA A PART OF ABOVE RIS)
    RIS SUFFIX                                                  (RB3520)

    FACILITY NAME                                               (MX3850)

    FACILITY ADDRESS                                            (MX8349)

LEVEL 3          (FOR EACH FACILITY SHIPPED TO--IE EACH RECEIVER)
    REPORTING IDENTIFICATION SYMBOL                             (T46248)

    RIS SUFFIX                                                  (RB3520)

    FACILITY NAME                                               (MX3850)

    FACILITY ADDRESS                                            (MX8349)

  OR
    FACILITY RIS                                                (RF5319)

    FACILITY NAME                                               (RF5082)
```

```
    FACILITY LOCATION                                                (RF4565)

    COUNTRY ID CODE                                                  (MC9724)

    NAME OF COUNTRY                                                  (MC0891)

LEVEL 4
  ALL DATA ELEMENTS FROM THE CONSTRUCT
    MAT ACCTG TRANSACTION                                            (PF    )
      WHERE
    STATUS FLAG                                                      (PF5896)
      IS EQUAL TO "ACTIVE"
    NUMBER OF CORRECTIONS                                            (C1    )
      MADE BY SHIPPER
LEVEL 5          (IF APPLICABLE)
  ALL DATA ELEMENTS FROM THE CONSTRUCT
    LINE ITEM                                                        (HN    )
      WHERE
    CORRECTION STATUS                                                (HN4922)
      IS EQUAL TO "ACTIVE"
LEVEL 3          (FOR EACH FACILITY RECEIVED FROM--IE SHIPPER)
    REPORTING IDENTIFICATION SYMBOL                                  (TM6248)

    RIS SUFFIX                                                       (RB3520)

    FACILITY NAME                                                    (MX3850)

    FACILITY ADDRESS                                                 (MX8349)

  OR
    FACILITY RIS                                                     (RF5819)

    FACILITY NAME                                                    (RF5082)

    FACILITY LOCATION                                                (RF4565)

    COUNTRY ID CODE                                                  (MC9724)

    NAME OF COUNTRY                                                  (MC0891)

LEVEL 4
  ALL DATA ELEMENTS FROM THE CONSTRUCT
    MAT ACCTG TRANSACTION                                            (PF    )
      WHERE
    STATUS FLAG                                                      (PF5896)
      IS EQUAL TO "ACTIVE"
    NUMBER OF CORRECTIONS                                            (C1    )
      MADE BY RECEIVER
LEVEL 5          (IF APPLICABLE)
  ALL DATA ELEMENTS FROM THE CONSTRUCT
    LINE ITEM                                                        (HN    )
      WHERE
    CORRECTION STATUS                                                (HN4922)
      IS EQUAL TO "ACTIVE"
```

TITLE

FACILITY-INTERNAL MBA-MBA TRANSACTIONS

PURPOSE

INTERNAL MBA-MBA TRANSACTIONS FOR EACH FACILITY WILL BE SUMMARIZED IN THIS DAILY REPORT. THIS REPORT WILL PROVIDE OIE AND ONMSS A METHOD OF STUDYING THE INTERNAL TRANSACTIONS AT A FACILITY.

FREQUENCY: UPON REQUEST (50/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 30 PAGES

PARAMETERS

ACCOUNT RIS	(P1)
BEGIN DATE INCLUSIVE	(P2)
END DATE INCLUSIVE	(P3)
LINE ITEM DATA? YES OR NO	(P4)

CALCULATED RESULTS

NUMBER OF CORRECTIONS	(C1)

SELECTION

SELECT	
ACCOUNT ID WHERE	(TM)
REPORTING IDENTIFICATION SYMBOL IS EQUAL TO	(TM6248)
ACCOUNT RIS	(P1)
THEN VIA	
INCLUDES MATL BALANCE AREAS	(TMRB)
MATL BAL AREAS WHERE VIA	(RBS)
IS IN A SITE	(RBMX)
FACILITY TYPE IS EQUAL TO "FUEL CYCLE"	(MX3168)
THEN VIA	
IS IN A SITE	(RBMX)
SITE	(MX)
THEN VIA	
DEFINES'FROM'POINT OF TRANSFER SERIES	(RBNXF)
TRANSFER SERIES	(NXS)

```
    WHERE VIA
  DEFINES TO POINT AS MATL BALANCE AREA                    (NXRBT )

  MATERIAL BAL AREA                                        (RB    )

THEN VIA
  IS INCLUDED IN AN ACCOUNT ID                             (RBTM  )

1)
  REPORTING IDENTIFICATION SYMBOL                          (TM6248)
    IS EQUAL TO
  ACCOUNT RIS                                              (P1    )
    AND WHERE VIA
  IS IN A SITE                                             (RBMX  )

2)
  FACILITY NAME                                            (MX3850)
    IS EQUAL TO ORIGINAL
  FACILITY NAME                                            (MX3850)

THEN VIA
  DEFINES TO POINT AS MATL BALANCE AREA                    (NXRBT )

  MATERIAL BAL AREA                                        (RB    )

THEN VIA
  IS INCLUDED IN AN ACCOUNT ID                             (RBTM  )

  ACCOUNT ID                                               (TM    )

THEN VIA
  IS IN A SITE                                             (RBMX  )

  SITE                                                     (MX    )

THEN VIA
  HAS SHIPPER/RECEIVER PAIRS                               (NXKX  )

  SHIP/REC PAIRS                                           (KXS   )
    WHERE
  DATE SHIPPED                                             (KX3205)
    OR
  DATE RECEIVED                                            (KX1402)
    IS GREATER THAN OR EQUAL TO
  BEGIN DATE                                               (P2    )
    AND LESS THAN OR EQUAL TO
  END DATE                                                 (P3    )

THEN VIA
  HAS A SHIPPER MATL ACCTG TRANSACTION                     (KXPFS )

  MAT ACCT TRANSACTIONS                                    (PFS   )

THEN IF
  LINE ITEM DATA?                                          (P4    )
    IS EQUAL TO "YES"
THEN VIA
  HAS LINE ITEMS                                           (PFHN  )
```

```
    LINE ITEMS                                                    (HNS    )
      WHERE
    CORRECTION STATUS                                             (HN4922)
      IS EQUAL TO "ACTIVE"
  THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                         (KXPFR  )

    MAT ACCT TRANSACTIONS                                         (PFS    )
      WHERE
  THEN IF
    LINE ITEM DATA?                                               (P4     )
      IS EQUAL TO "YES"
  THEN VIA
    HAS LINE ITEMS                                                (PFHN   )

    LINE ITEMS                                                    (HNS    )
      WHERE
    CORRECTION STATUS                                             (HN4922)
      IS EQUAL TO "ACTIVE"
DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                               (TM6248)

LEVEL 2
    RIS SUFFIX                                                    (RB3520)

    FACILITY NAME                                                 (MX3850)

    FACILITY ADDRESS                                              (MX8349)

LEVEL 3
    RIS SUFFIX                                                    (RB3520)

LEVEL 4
  ALL DATA ELEMENTS FROM THE CONSTRUCT
    MAT ACCTG TRANSACTION                                         (PF     )
      WHERE
    STATUS FLAG                                                   (PF5896)
      IS EQUAL TO "ACTIVE"
    NUMBER OF CORRECTIONS                                         (C1     )

LEVEL 5          (IF APPLICABLE)
  ALL DATA ELEMENTS FRO' THE CONSTRUCT
    LINE ITEM                                                     (HN     )
      WHERE
    CORRECTION STATUS                                             (HN4922)
      IS EQUAL TO "ACTIVE"
```

TITLE

OPEN TRANSACTIONS

PURPOSE

A COMPLETE LIST OF ALL OPEN TRANSACTIONS AT A FACILITY WILL BE GENERATED FROM ALL TRANSACTIONS SINCE A SPECIFIED DATE. THIS REPORT WILL BE OF OPERATIONAL USE AS WELL AS OF USE TO OIE AND ONMSS.

FREQUENCY: WEEKLY(MONDAY MORNING) OR UPON REQUEST. (50/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 10 PAGES

PARAMETERS

ACCOUNT RIS	(P1)
DATE	(P2)

CALCULATED RESULTS

NUMBER OF DAYS OPEN	(C1)
AS A FUNCTION OF THE EXISTING	
DATE SHIPPED	(KX3205)
OR	
DATE RECEIVED	(KX1402)
AND TODAY'S DATE	

SELECTION

SELECT	
ACCOUNT ID	(TM)
WHERE	
REPORTING IDENTIFICATION SYMBOL	(TM6248)
IS EQUAL TO	
ACCOUNT RIS	(P1)
THEN VIA	
INCLUDES MATL BALANCE AREAS	(TMRB)
MATL BAL AREAS	(RBS)
THEN VIA	
IS IN A SI[illegible]	(RBMX)
SITE	(MX)
1)THEN VIA	
DEFINES'FROM'POINT OF TRANSFER SERIES	(RBNXF)
TRANSFER SERIES	(NXS)
THEN IF	
THEN VIA	
THEN VIA	

```
    SHIP/REC PAIRS                                                    (KXS    )
      WHERE
    DATE SHIPPED                                                      (KX3205)
      OR
    DATE RECEIVED                                                     (KX1402)
      IS GREATER THAN OR EQLAL TC
    DATE                                                              (P2     )
      AND WHERE
    HAS A SHIPPER MATL ACCTG TRANSACTION                              (KXPFS  )
      OR
    HAS A RECEIVER MATL ACCTG TRANSACTION                             (KXPFR  )
      DOES NOT EXIST
  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                                        (NXKX   )

    SHIP/REC PAIRS                                                    (KXS    )
      WHERE
    DATE SHIPPED                                                      (KX3205)
      OR
    DATE RECEIVED                                                     (KX1402)
      IS GREATER THAN OR EQUAL TC
    DATE                                                              (P2     )
      AND WHERE
    HAS A SHIPPER MATL ACCTG TRANSACTION                              (KXPFS  )
      OR
    HAS A RECEIVER MATL ACCTG TRANSACTION                             (KXPFR  )
      DOES NOT EXIST
  THEN VIA THE EXISTING
    HAS A SHIPPER MATL ACCTG TRANSACTION                              (KXPFS  )
      OR
    HAS A RECEIVER MATL ACCTG TRANSACTION                             (KXPFR  )
      THE MOST RECENT:
    MAT ACCTG TRANSACTION                                             (PF     )

    THEN VIA
2)THEN VIA
    DEFINES'TO'POINT OF TRANSFER SERIES                               (RBNXT  )

    TRANSFER SERIES                                                   (NXS    )

  THEN IF
  THEN VIA
  THEN VIA
    SHIP/REC PAIRS                                                    (KXS    )
      WHERE
    DATE SHIPPED                                                      (KX3205)
      OR
    DATE RECEIVED                                                     (KX1402)
      IS GREATER THAN OR EQLAL TO
    DATE                                                              (P2     )
      AND WHERE
    HAS A SHIPPER MATL ACCTG TRANSACTION                              (KXPFS  )
      OR
    HAS A RECEIVER MATL ACCTG TRANSACTION                             (KXPFR  )
      DOES NOT EXIST
  ELSE VIA
    HAS SHIPPER/RECEIVER PAIRS                                        (NXKX   )

    SHIP/REC PAIRS                                                    (KXS    )
```

```
      WHERE
    DATE SHIPPED                                                    (KX3205)
      OR
    DATE RECEIVED                                                   (KX1402)
      IS GREATER THAN OR EQLAL TO
    DATE                                                            (P2    )
      AND WHERE
    HAS A SHIPPER MATL ACCTG TRANSACTION                            (KXPFS )
      OR
    HAS A RECEIVER MATL ACCTG TRANSACTION                           (KXPFR )
      DOES NOT EXIST
  THEN VIA THE EXISTING
    HAS A SHIPPER MATL ACCTG TRANSACTION                            (KXPFS )
      OR
    HAS A RECEIVER MATL ACCTG TRANSACTION                           (KXPFR )
      THE MOST RECENT:
    MAT ACCTG TRANSACTION                                           (PF    )

    THEN VIA
DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                                 (TM6248)

LEVEL 2
    RIS SUFFIX                                                      (RB3520)

    FACILITY NAME                                                   (MX3850)

    FACILITY ADDRESS                                                (MX8349)

LEVEL 3
  ALL DATA ELEMENTS FROM THE CONSTRUCT
    MAT ACCTG TRANSACTION                                           (PF    )

   AND
    NUMBER OF DAYS OPEN                                             (C1    )

   AND
```

TITLE

LATE TRANSACTION REPORT

PURPOSE

THIS REPORT WILL PROVIDE A LIST OF THE LATE TRANSACTIONS FOR EACH FACILITY WHICH CAN BE USED TO CHECK COMPLIANCE WITH REPORTING REQUIREMENTS. LATE TRANSACTION IS DEFINED TO BE ONE WHERE THE RECEIVER FAILS TO VALIDATE THE MEASUREMENTS OF HIS RECEIPT WITHIN A SPECIFIED PERIOD OF TIME(THE CASE WHERE HE OR THE SHIPPER IS LATE IN SENDING IN THE TRANSACTION ITSELF (ACTION CODES A OR C) IS AN OPEN TRANSACTION AND APPEARS ON THAT REPORT).

FREQUENCY MONTHLY, OR UPON REQUEST. (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 10 PAGES

PARAMETERS

MAXIMUM NUMBER OF DAYS STORED IN ISIS	(P1)
ACCOUNT RIS	(P2)
BEGIN DATE	(P3)
END DATE	(P4)

CALCULATED RESULTS

NUMBER OF DAYS LATE AS A FUNCTION OF	(C1)
ACTION DATE WHERE	(PF0638)
ACTION DATE CODE IS EQUAL TO "C" AND	(PF4048)
ACTION DATE WHERE	(PF0638)
ACTION DATE CODE IS EQUAL TO "D"	(PF4048)
NUMBER OF LATE REPORTS	(C2)
MAXIMUM NUMBER OF DAYS LATE AS A FUNCTION OF	(C3)
NUMBER OF DAYS LATE MAXIMUM	(C1)
MINIMUM NUMBER OF DAYS LATE AS A FUNCTION OF	(C4)
NUMBER OF DAYS LATE MINIMUM	(C1)
AVERAGE DELAY AS A FUNCTION OF	(C5)
NUMBER OF DAYS LATE AND	(C1)
NUMBER OF LATE REPORTS	(C2)

```
    STANDARD DEVIATION OF DELAY                                    (C6     )

SELECTION
---------
  SELECT
    ACCOUNT ID                                                     (TM     )
      WHERE
    REPORTING IDENTIFICATION SYMBOL                                (TM6248)
      IS EQUAL TO
    ACCOUNT RIS                                                    (P2     )

  THEN VIA
    INCLUDES MATL BALANCE AREAS                                    (TMRB   )

    MATL BAL AREAS                                                 (RBS    )

  THEN VIA
    IS IN A SITE                                                   (RBMX   )

    SITE                                                           (MX     )

  THEN VIA
    DEFINES'TO'POINT OF TRANSFER SERIES                            (RBNXT  )

    TRANSFER SERIES                                                (NXS    )

  THEN VIA
    HAS SHIPPER/RECEIVER PAIRS                                     (NXKX   )

    SHIP/REC PAIRS                                                 (KXS    )
      WHERE
    DATE RECEIVED                                                  (KX1402)
      IS GREATER THAN OR EQUAL TO
    BEGIN DATE                                                     (P3     )
      AND LESS THAN OR EQUAL TO
    END DATE                                                       (P4     )
      AND WHERE
    HAS A SHIPPER MATL ACCTG TRANSACTION                           (KXPFS  )
      AND
    HAS A RECEIVER MATL ACCTG TRANSACTION                          (KXPFR  )
      EXIST
  THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                          (KXPFR  )

    MAT ACCTG TRANSACTION                                          (PF     )
      WHERE
    ACTION DATE CODE                                               (PF4048)
      IS EQUAL TO "C"
  THEN IF VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                          (KXPFR  )

    MAT ACCTG TRANSACTION                                          (PF     )
      DOES NOT EXIST WHERE
    ACTION DATE CODE                                               (PF4048)
      IS EQUAL TO "D"
  THEN CALCULATE
    NUMBER OF DAYS LATE                                            (C1     )
      AS A FUNCTION OF TODAY'S DATE AND
```

```
    ACTION DATE                                                    (PF0638)

  ELSE IF VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                          (KXPFR )

    MAT ACCTG TRANSACTION                                          (PF    )
      DOES EXIST WHERE
    ACTION DATE CODE                                               (PF4048)
      IS EQUAL TO "D"
  THEN CALCULATE
    NUMBER OF DAYS LATE                                            (C1    )
      AS A FUNCTION OF
    ACTION DATE                                                    (PF0638)
      WHERE
    ACTION DATE CODE                                               (PF4048)
      IS EQUAL TO "C"
    ACTION DATE                                                    (PF0638)
      WHERE
    ACTION DATE CODE                                               (PF4048)
      IS EQUAL TO "D"
DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                                (TM6248)

LEVEL 2
    RIS SUFFIX                                                     (RB3520)

    FACILITY NAME                                                  (MX3850)

    FACILITY ADDRESS                                               (MX8349)

    NUMBER OF LATE REPORTS                                         (C2    )

    MAXIMUM NUMBER OF DAYS LATE                                    (C3    )

    MINIMUM NUMBER OF DAYS LATE                                    (C4    )

    AVERAGE DELAY                                                  (C5    )

    STANDARD DEVIATION OF DELAY                                    (C6    )

LEVEL 3
    DATE SHIPPED                                                   (KX3205)

    DATE RECEIVED                                                  (KX1402)

    TRANSACTION NUMBER                                             (PF2530)

    NUMBER OF DAYS LATE                                            (C1    )
```

TITLE

SUMMARY LIST OF ON-SITE GAINS AND LOSSES

PURPOSE

ON-SITE GAIN AND LOSS TRANSACTIONS WILL BE INCLUDED IN THIS REPORT FOR EACH FACILITY. A TRANSACTION IS IDENTIFIED AS REPORTING AN ON-SITE GAIN OR LOSS IF THE TRANSACTION TYPE IS OTHER THAN MATERIAL TRANSFER, IE, IF IT IS MEASURED DISCARD, LOSS, MUFF, BURN-UP, ETC. THIS REPORT WILL BE OF USE TO DIE AND ONMSS PERSONNEL.

FREQUENCY: MONTHLY(FIRST OF MONTH) OR UPON REQUEST. (400/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 2 PAGES

PARAMETERS

ACCOUNT RIS	(P1)
BEGIN DATE	(P2)
END DATE	(P3)

SELECTION

SELECT	
ACCOUNT ID	(TM)
WHERE	
REPORTING IDENTIFICATION SYMBOL	(TM6248)
IS EQUAL TO	
ACCOUNT RIS	(P1)
THEN VIA	
INCLUDES MATL BALANCE AREAS	(TMRB)
MATL BAL AREAS	(RBS)
THEN VIA	
IS IN A SITE	(RBMX)
SITE	(MX)
THEN VIA	
DEFINES'FROM'POINT OF TRANSFER SERIES	(RBNXF)
TRANSFER SERIES	(NXS)
WHERE VIA	
DEFINES TO POINT AS MATL BALANCE AREA	(NXRBT)
RIS SUFFIX	(RB3520)
(SHIPPER) IS EQUAL TO	
RIS SUFFIX	(RB3520)
(RECEIVER)	
THEN VIA	

```
    HAS SHIPPER/RECEIVER PAIRS                                  (NXKX   )

    SHIP/REC PAIRS                                              (KXS    )
      WHERE
    DATE SHIPPED                                                (KX3205)
      OR
    DATE RECEIVED                                               (KX1402)
      IS GREATER THAN OR EQUAL TO
    BEGIN DATE                                                  (P2     )
      AND LESS THAN OR EQUAL TO
    END DATE                                                    (P3     )

  THEN VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                        (KXPFS  )

    MAT ACCT TRANSACTIONS                                       (PFS    )

  THEN VIA
    HAS LINE ITEMS                                              (PFHN   )

    LINE ITEMS                                                  (HNS    )
      WHERE
    CORRECTION STATUS                                           (HN4922)
      IS EQUAL TO "ACTIVE"
  THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                       (KXPFR  )

    MAT ACCT TRANSACTIONS                                       (PFS    )

  THEN VIA
    HAS LINE ITEMS                                              (PFHN   )

    LINE ITEMS                                                  (HNS    )
      WHERE
    CORRECTION STATUS                                           (HN4922)
      IS EQUAL TO "ACTIVE"
DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                             (TM6248)

LEVEL 2
    RIS SUFFIX                                                  (RB3520)

    FACILITY NAME                                               (MX3850)

    FACILITY ADDRESS                                            (MX8349)

LEVEL 3
  ALL DATA ELEMENTS FROM THE "ACTIVE"
    MAT ACCTG TRANSACTION                                       (PF     )

LEVEL 4
  ALL DATA ELEMENTS FROM THE "ACTIVE"
    LINE ITEMS                                                  (HNS    )
```

TITLE

FIVE YEAR SHIPMENT OR RECEIPT SUMMARY

PURPOSE

THIS REPORT WILL SUMMARIZE THE SHIPMENTS OR RECEIPTS FOR A FACILITY YEARLY OVER THE PAST FIVE YEARS. IT WILL PROVIDE AN OVERVIEW OF MATERIAL MOVEMENT FOR UPPER-LEVEL NRC PERSONNEL.

FREQUENCY: UPON REQUEST (APPROX. 2/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 1000 PAGES

PARAMETERS

ACCOUNT RIS	(P1)
TYPE OF REPORT SPECIFY "SHIPMENT" OR "RECEIPT"	(P2)

CALCULATED RESULTS

ELEMENT AMOUNT AS A FUNCTION OF	(C1)
RIS SUFFIX	(RB3520)
AND	
STANDARD MATERIAL TYPE CODE	(RV2908)
AND	
MEASURED ELEMENT WEIGHT (IE, IT IS THE TOTAL OF A MATERIAL SHIPPED TO OR RECEIVED FROM A RIS THIS YEAR)	(SZ4504)
ISOTOPE AMOUNT AS A FUNCTION OF	(C2)
RIS SUFFIX	(RB3520)
AND	
STANDARD MATERIAL TYPE CODE	(RV2908)
AND	
MEASURED ISOTOPIC WEIGHT (SEE NOTE ABOVE)	(SZ3294)
YEAR TOTAL ELEMENT AMOUNT AS A FUNCTION OF	(C3)
STANDARD MATERIAL TYPE CODE	(RV2908)
AND	
ELEMENT AMOUNT	(C1)
YEAR TOTAL ISOTOPE AMOUNT AS A FUNCTION OF	(C4)
STANDARD MATERIAL TYPE CODE	(RV2908)
AND	
ISOTOPE AMOUNT	(C2)
SUMMARY ELEMENT AMOUNT AS A FUNCTION OF	(C5)
STANDARD MATERIAL TYPE CODE	(RV2908)

```
      AND
    YEAR TOTAL ELEMENT AMOUNT                                    (C3     )
      (FOR ALL 5 YEARS)

    SUMMARY ISOTOPE AMOUNT                                       (C6     )
      AS A FUNCTION OF
    STANDARD MATERIAL TYPE CODE                                  (RV2908)
      AND
    YEAR TOTAL ISOTOPE AMOUNT                                    (C4     )
      (FOR ALL 5 YEARS)

    CALCULATED ENRICHMENT                                        (C7     )
      AS A FUNCTION OF
    MEASURED ELEMENT WEIGHT                                      (SZ4504)
      AND
    MEASURED ISOTOPIC WEIGHT                                     (SZ3294)

SELECTION
---------

  SELECT
    ACCOUNT ID                                                   (TM     )
      WHERE
    REPORTING IDENTIFICATION SYMBOL                              (TM6248)
      IS EQUAL TO
    ACCOUNT RIS                                                  (P1     )

  THEN VIA
    INCLUDES MATL BALANCE AREAS                                  (TMRB   )

    MATL BAL AREAS                                               (RBS    )

  THEN VIA
    IS IN A SITE                                                 (RBMX   )

    SITE                                                         (MX     )

  THEN IF
1)
    TYPE OF REPORT                                               (P2     )
      IS EQUAL TO "SHIPMENT"
  THEN VIA
    DEFINES'FROM'POINT OF TRANSFER SERIES                        (RBNXF  )

    TRANSFER SERIES                                              (NXS    )

  WHERE VIA
    DEFINES TO POINT AS MATL BALANCE AREA                        (NXRBT  )

    RIS SUFFIX                                                   (RB3520)
      IS NOT EQUAL TO
    RIS SUFFIX                                                   (RB3520)

  THEN IF
    DEFINES TO POINT AS MATL BALANCE AREA                        (NXRBT  )
      EXISTS
  THEN VIA
    DEFINES TO POINT AS MATL BALANCE AREA                        (NXRBT  )
```



```
    MATERIAL BAL AREA                                            (RB     )
```

```
THEN VIA
  IS INCLUDED IN AN ACCOUNT ID                                    (RBTM  )

  ACCOUNT ID                                                      (TM    )

THEN VIA
  IS IN A SITE                                                    (RBMX  )

  SITE                                                            (MX    )

ELSE IF
  DEFINES TO POINT AS COUNTRY FACILITY                            (NXRFT )
    EXISTS
THEN VIA
  DEFINES TO POINT AS COUNTRY FACILITY                            (NXRFT )

  FOREIGN FACILITY                                                (RF    )

THEN VIA
  BELONGS TO COUNTRY                                              (RFMC  )

  COUNTRY                                                         (MC    )

THEN VIA
  HAS SHIPPER/RECEIVER PAIRS                                      (NXKX  )

  SHIP/REC PAIRS                                                  (KXS   )
    WHERE
  DATE SHIPPED                                                    (KX3205)
    IS GREATER THAN OR EQUAL TO TODAY'S DATE - FIVE YEARS
THEN VIA
  HAS TRANSACTION BATCHES                                         (KXKQ  )

  TRANSACTION BATCHES                                             (KQS   )

THEN VIA
  CONTAINS TRANSACTION CONSTITUENTS                               (KQGL  )

  TRANS CONSTITUENTS                                              (GLS   )

THEN VIA
  MAY HAVE A SHIPPER MEASURED VALUE                               (GLSZS )

  VALUE                                                           (SZ    )

THEN VIA
  HAS AN ASSOCIATED MEASUREMENT LIMIT                             (SZPL  )

  MEASUREMENT LIMIT                                               (PL    )

THEN VIA
  IS IN TERMS OF AN NRC BALANCE MATERIAL                          (PLZJ  )

  NRC BALANCE MATERIAL                                            (ZJ    )

THEN VIA
  HAS NRC RANGES                                                  (ZJRV  )
```

```
    NRC RANGE                                                    (RV     )
      WHERE
    CALCULATED ENRICHMENT                                        (C7     )
      IS GREATER THAN OR EQUAL TO
    BEGINNING ENRICHMENT                                         (RV2567)
      AND LESS THAN OR EQUAL TO
    ENDING ENRICHMENT                                            (RV2964)

  ELSE IF
2)
    TYPE OF REPORT                                               (P2     )
      IS EQUAL TO "RECEIVER"
  THEN VIA
    DEFINES'TO'POINT OF TRANSFER SERIES                          (RBNXT  )

    TRANSFER SERIES                                              (NXS    )
      WHERE VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                      (NXRBF  )

    RIS SUFFIX                                                   (RB3520)
      IS NOT EQUAL TO
    RIS SUFFIX                                                   (RB3520)

  THEN IF
    DEFINES FROM POINT AS MATL BALANCE AREA                      (NXRBF  )
      EXISTS
  THEN VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                      (NXRBF  )

    MATERIAL BAL AREA                                            (RB     )

  THEN VIA
    IS INCLUDED IN AN ACCCUNT ID                                 (RBTM   )

    ACCOUNT ID                                                   (TM     )

  THEN VIA
    IS IN A SITE                                                 (RBMX   )

    SITE                                                         (MX     )

  ELSE IF
    DEFINES FROM POINT AS CCUNTRY FACILITY                       (NXRFF  )
      EXISTS
  THEN VIA
    DEFINES FROM POINT AS CCUNTRY FACILITY                       (NXRFF  )

    FOREIGN FACILITY                                             (RF     )

  THEN VIA
    BELONGS TO COUNTRY                                           (RFMC   )

    COUNTRY                                                      (MC     )

  THEN VIA
    HAS SHIPPER/RECEIVER PAIRS                                   (NXKX   )

    SHIP/REC PAIRS                                               (KXS    )
      WHERE
```

```
    DATE RECEIVED                                                    (KX1402)
      IS GREATER THAN OR EQUAL TC TODAY'S DATE - FIVE YEARS
  THEN VIA
    HAS TRANSACTION BATCHES                                          (KXKQ   )

    TRANSACTION BATCHES                                              (KQS    )

  THEN VIA
    CONTAINS TRANSACTION CONSTITUENTS                                (KQGL   )

    TRANS CONSTITUENTS                                               (GLS    )

  THEN VIA
    MAY HAVE A RECEIVER MEASURED VALUE                               (GLSZR  )

    VALUE                                                            (SZ     )

  THEN VIA
    HAS AN ASSOCIATED MEASUREMENT LIMIT                              (SZPL   )

    MEASUREMENT LIMIT                                                (PL     )

  THEN VIA
    IS IN TERMS OF AN NRC BALANCE MATERIAL                           (PLZJ   )

    NRC BALANCE MATERIAL                                             (ZJ     )

  THEN VIA
    HAS NRC RANGES                                                   (ZJRV   )

    NRC RANGE                                                        (RV     )
      WHERE
    CALCULATED ENRICHMENT                                            (C7     )
      IS GREATER THAN OR EQUAL TC
    BEGINNING ENRICHMENT                                             (RV2567)
      AND LESS THAN OR EQUAL TC
    ENDING ENRICHMENT                                                (RV2964)

DISPLAY
-------
LEVEL 1
    ACCOUNT RIS                                                      (P1     )

LEVEL 2
    YEAR
LEVEL 3
    STANDARD MATERIAL TYPE CODE                                      (RV2908)

    ELEMENT NAME                                                     (ZJ1115)

    ISOTOPE NUMBER                                                   (ZJ0356)

    BEGINNING ENRICHMENT                                             (RV2567)

    ENDING ENRICHMENT                                                (RV2964)

    YEAR TOTAL ELEMENT AMOUNT                                        (C3     )

    YEAR TOTAL ISOTOPE AMOUNT                                        (C4     )
```

LEVEL 4

RIS SUFFIX (OF THE INPUT RIS)	(RB3520)
FACILITY NAME	(MX3850)
FACILITY ADDRESS	(MX8349)

LEVEL 5

REPORTING IDENTIFICATION SYMBOL (OF THE SHIPPER/RECEIVER)	(TM6248)
RIS SUFFIX	(RB3520)
FACILITY NAME	(MX3850)
FACILITY ADDRESS	(MX8349)
ELEMENT AMOUNT	(C1)
ISOTOPE AMOUNT	(C2)

LEVEL 2

STANDARD MATERIAL TYPE CODE	(RV2908)
SUMMARY ELEMENT AMOUNT	(C5)
SUMMARY ISOTOPE AMOUNT	(C6)

TITLE

1AEA INVENTORY CHANGE REPORT

PURPOSE

THE 1AEA INVENTORY CHANGE REPORT (ICR) WILL BE GENERATED FROM THE FACILITY DATA AND SENT TO THE 1AEA. A COPY WILL THEN GO BACK TO THE FACILITY FOR VERIFICATION. COPIES WILL ALSO GO TO ONMSS PERSONNEL. THE REPORT WILL SHOW ALL CHANGES IN THE SNM INVENTORY FOR EVERY MATERIAL BALANCE AREA ELIGIBLE FOR 1AEA SAFEGUARDS.

FREQUENCY: MONTHLY

PARAMETERS

MBA INPUT (P1)

BEGINNING DATE-THIS REPORT (P2)

ENDING DATE-THIS REPORT (P3)

BEGINNING DATE-PREVIOUS REPORT (P4)

STATUS OF ENTRY (C1)
VALUES= "CORRECTION" - IF TRANSACTION IS CORRECTING DATA PREVIOUSLY REPORTED TO THE 1AEA OR IF TRANSACTION DATE FELL WITHIN RANGE OF PREVIOUS 1AEA REPORT BUT WAS CAPTURED TOO LATE TO BE REPORTED
"NEW"

CALCULATED RESULTS

SELECTION

SELECT
MATERIAL BAL AREA (RB)
WHERE
RIS SUFFIX (RB3520)
IS EQUAL TO
MBA INPUT (P1)

THEN VIA
IS INCLUDED IN AN ACCOUNT ID (RBTM)

ACCOUNT ID (TM)

THEN VIA
1) WHERE ABOVE RIS IS RECEIVER:
DEFINES'TO'POINT OF TRANSFER SERIES (RBNXT)

TRANSFER SERIES (NXS)
WHERE VIA
DEFINES FROM POINT AS MATL BALANCE AREA (NXRBF)

RIS SUFFIX (RB3520)
IS NOT EQUAL TO
RIS SUFFIX (RB3520)

```
  THEN IF
    DEFINES FROM POINT AS MATL BALANCE AREA                    (NXRBF )
      EXISTS
  THEN VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                    (NXRBF )

    MATERIAL BAL AREA                                          (RB    )

  THEN VIA
    IS INCLUDED IN AN ACCCUNT ID                               (RBTM  )

    ACCOUNT ID                                                 (TM    )

  ELSE IF
    DEFINES FROM POINT AS CCUNTRY FACILITY                     (NXRFF )
      EXISTS
  THEN VIA
    DEFINES FROM POINT AS CCUNTRY FACILITY                     (NXRFF )

    FOREIGN FACILITY                                           (RF    )

  THEN VIA
    BELONGS TO CCUNTRY                                         (RFMC  )

    COUNTRY                                                    (MC    )

THEN FOR EACH
    TRANSFER SERIES                                            (NX    )

  VIA
    HAS SHIPPER/RECEIVER PAIRS                                 (NXKK  )

TO GET PREVIOUS MONTH'S CORRECTIONS:
    SHIP/REC PAIRS                                             (KXS   )
      WHERE
    DATE RECEIVED                                              (KX1402)
      IS GREATER THAN OR EQUAL TO
    BEGINNING DATE-PREVIOUS REPCRT                             (P4    )
      AND LESS THAN
    BEGINNING DATE-THIS REPCRT                                 (P2    )
      AND WHERE
  VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                      (KXPFR )
      THERE EXIST
    MAT ACCT TRANSACTIONS                                      (PFS   )
      WHERE
    IAEA REPORT STATUS                                         (PF0169)
      IS EQUAL TO "NOT REPCRTED"
TO GET THIS MONTH'S RECEIPTS:
    SHIP/REC PAIRS                                             (KXS   )
      WHERE
    DATE RECEIVED                                              (KX1402)
      IS GREATER THAN OR EQUAL TO
    BEGINNING DATE-THIS REPCRT                                 (P2    )
      AND LESS THAN OR EQUAL TO
    ENDING DATE-THIS REPORT                                    (P3    )
```



```
  THEN VIA
```

```
    HAS A RECEIVER MATL ACCTG TRANSACTION                    (KXPFR )

    MAT ACCT TRANSACTIONS                                    (PFS   )

  THEN VIA
    HAS LINE ITEMS                                           (PFHN  )

    LINE ITEMS                                               (HNS   )
      WHERE
    CORRECTION STATUS                                        (HN4922)
      IS EQUAL TO "ACTIVE"
  THEN VIA
2)  WHERE ABOVE RIS IS SHIPPER:
    DEFINES 'FROM' POINT OF TRANSFER SERIES                  (RBNXF )

    TRANSFER SERIES                                          (NXS   )
      WHERE VIA
    DEFINES TO POINT AS MATL BALANCE AREA                    (NXRBT )

    RIS SUFFIX                                               (RB3520)
      IS NOT EQUAL TO
    RIS SUFFIX                                               (RB3520)

  THEN IF
    DEFINES TO POINT AS MATL BALANCE AREA                    (NXRBT )
      EXISTS
  THEN VIA
    DEFINES TO POINT AS MATL BALANCE AREA                    (NXRBT )

    MATERIAL BAL AREA                                        (RB    )

  THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                             (RBTM  )

    ACCOUNT ID                                               (TM    )

  ELSE IF
    DEFINES TO POINT AS COUNTRY FACILITY                     (NXRFT )
      EXISTS
  THEN VIA
    DEFINES TO POINT AS COUNTRY FACILITY                     (NXRFT )

    FOREIGN FACILITY                                         (RF    )

  THEN VIA
    BELONGS TO COUNTRY                                       (RFMC  )

    COUNTRY                                                  (MC    )

THEN FOR EACH
    TRANSFER SERIES                                          (NX    )

  VIA
    HAS SHIPPER/RECEIVER PAIRS                               (NXKX  )

TO GET PREVIOUS MONTH'S CORRECTIONS:
    SHIP/REC PAIRS                                           (KXS   )
      WHERE
    DATE SHIPPED                                             (KX3205)
```

```
      IS GREATER THAN OR EQUAL TO
    BEGINNING DATE-PREVIOUS REPORT                          (P4     )
      AND LESS THAN
    BEGINNING DATE-THIS REPORT                              (P2     )
      AND WHERE
  VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                    (KXPFS  )
      THERE EXIST
    MAT ACCT TRANSACTIONS                                   (PFS    )
      WHERE
    IAEA REPORT STATUS                                      (PF0169)
      IS EQUAL TO "NOT REPORTED"
TO GET THIS MONTH'S SHIPMENTS:
    SHIP/REC PAIRS                                          (KXS    )
      WHERE
    DATE SHIPPED                                            (KX3205)
      IS GREATER THAN OR EQUAL TO
    BEGINNING DATE-THIS REPORT                              (P2     )
      AND LESS THAN OR EQUAL TO
    ENDING DATE-THIS REPORT                                 (P3     )

  THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                   (KXPFR  )

    MAT ACCT TRANSACTIONS                                   (PFS    )

  THEN VIA
    HAS LINE ITEMS                                          (PFHN   )

    LINE ITEMS                                              (HNS    )
      WHERE
    CORRECTION STATUS                                       (HN4922)
      IS EQUAL TO "ACTIVE"
  THEN VIA
3)  FOR INTERNAL TRANSACTIONS:
    DEFINES'FROM'POINT OF TRANSFER SERIES                   (RBNXF  )

    TRANSFER SERIES                                         (NXS    )
      WHERE VIA
    DEFINES TO POINT AS MATL BALANCE AREA                   (NXRBT  )

    RIS SUFFIX                                              (RB3520)
      IS EQUAL TO
    RIS SUFFIX                                              (RB3520)

THEN FOR EACH
    TRANSFER SERIES                                         (NX     )

  VIA
    HAS SHIPPER/RECEIVER PAIRS                              (NXKX   )

TO GET PREVIOUS MONTH'S CORRECTIONS:
  (CONTINUE FROM THIS POINT IN SECTION (2))
DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                         (TM6248)
```



```
    RIS SUFFIX                                              (RB3520)
```

BEGINNING DATE-THIS REPORT (P2)

ENDING DATE-THIS REPORT (P3)

LEVEL 2 (TRANSACTIONS SHIPPED TO ABOVE MBA)
STATUS OF ENTRY (C1)

DATE RECEIVED (KX1402)

EITHER
"U" AND
REPORTING IDENTIFICATION SYMBOL (TM6248)
AND
RIS SUFFIX (RB3520)

OR
COUNTRY ID CODE (MC9724)
AND
COUNTRY RIS (MC1958)
AND
FACILITY RIS (RF5819)

TYPE OF INVENTORY CHANGE (HN1391)

KEY MEASUREMENT POINT (HN0511)

BATCH IDENTIFICATION (HN4460)

NUMBER OF ITEMS (HN2403)

COMPOSITION CODE (HN1907)

MATERIAL TYPE (HN0686)

ELEMENT WEIGHT (HN4415)

WEIGHT PERCENT ISOTOPE (HN0829)

ISOTOPE WEIGHT (HN0313)

MEASUREMENT BASIS (HN1501)

ORIGIN SEQUENCE ID (HN0830)

LEVEL 2 (TRANSACTIONS SHIPPED FROM ABOVE MBA)
DATA ELEMENTS SAME AS LEVEL 2 ABOVE EXCEPT
DATE SHIPPED (KX3205)
INSTEAD OF
DATE RECEIVED (KX1402)

LEVEL 2 (INTERNAL TRANSACTIONS)
DATA ELEMENTS SAME AS LEVEL 2 ABOVE

TITLE

1AEA PHYSICAL INVENTORY LISTING

PURPOSE

THE PHYSICAL INVENTORY LISTING (PIL) WILL BE GENERATED FROM THE FACILITY DATA FOR REPORTING TO THE 1AEA. ALL BATCHES WILL BE LISTED AND IDENTIFIED. A COPY OF THE REPORTED DATA WILL BE SENT TO THE FACILITY AND APPROPRIATE DNMSS PERSONNEL. THIS CAN ONLY BE GENERATED AFTER ASSURANCE IS OBTAINED THAT PHYSICAL INVENTORY DATA IN ISIS IS CORRECT.

FREQUENCY: AT EACH PHYSICAL INVENTORY

PARAMETERS

MBA INPUT	(P1)
INVENTORY DATE DESIRED DEFAULT = MOST RECENT INVENTORY	(P2)

CALCULATED RESULTS

NUMBER OF ITEMS	(C1)

SELECTION

SELECT	
MATERIAL BAL AREA WHERE	(RB)
RIS SUFFIX IS EQUAL TO	(RB3520)
MBA INPUT	(P1)
THEN VIA	
IS INCLUDED IN AN ACCOUNT ID	(RBTM)
ACCOUNT ID	(TM)
THEN VIA	
HAS MBA FORMULA LIMITS	(RBCS)
MBA FORMULA LIMITS	(CSS)
THEN VIA	
IS IN TERMS OF MBA POSS LIMITS	(CSXC)
MBA POSSESSION LIMITS	(XCS)
THEN VIA	
DEFINES REPORTABLE INVENTORIES	(XCZV)
REPORTABLE INVENTORY	(ZV)
THEN VIA	
IS DEFINED BY AN NRC RANGE	(ZVRV)
NRC RANGE	(RV)

```
THEN FOR EACH
    REPORTABLE INVENTORY                                    (ZV     )

  VIA
    HAS ASSOCIATED INVENTORY PERIODS                        (ZVQP   )

    INVENTORY PERIOD                                        (QP     )
      WHERE
    DATE                                                    (QP8085)
      IS EQUAL TO
    INVENTORY DATE DESIRED                                  (P2     )

THEN FOR EACH
    INVENTORY PERIOD                                        (QP     )

1)  VIA
    CROSS REF INVENTORY BATCHES                             (QPCM   )

    INVENTORY BATCHES                                       (CMS    )

  THEN VIA
    CROSS REF ITEMS                                         (CMCF   )

    ITEMS                                                   (CFS    )

  THEN VIA
    CROSS REF ITEMS                                         (CMCF   )

    HAS MEASURED VALUES                                     (CFSZ   )

    VALUE                                                   (SZ     )

  THEN VIA
    HAS AN ASSOCIATED MEASUREMENT LIMIT                     (SZPL   )

    MEASUREMENT LIMIT                                       (PL     )

  THEN VIA
    APPLIES TO A KEY MEASUREMENT POINT                      (PLPB   )

    KEY MEAS POINT                                          (PB     )

  THEN VIA
    MAY BE RECEIVER MEASURE OF TRANS CONSTIT                (SZGLR  )

    TRANS CONSTITUENT                                       (GL     )
      WHERE
  VIA
    IS A PART OF TRANSACTION BATCH                          (GLKQ   )

    TYPE OF INVENTORY CHANGE                                (KQ9141)
      IS EQUAL TO INVENTORY
2)  VIA
    MAY HAVE ORIGIN SEG AMOUNTS                             (QPJC   )

    ORIGIN SEG AMOUNTS                                      (JCS    )

  THEN VIA
```

IS THE AMOUNT OF AN ORIGIN SEQUENCE (JCTV)

ORIGIN SEQUENCE (TV)

DISPLAY

LEVEL 1

REPORTING IDENTIFICATION SYMBOL (TM6248)

RIS SUFFIX (RB3520)

DATE (QP8085)

LEVEL 2

KEY MEASUREMENT POINT ID (PB4130)

BATCH NUMBER (CM7150)

NUMBER OF ITEMS (C1)

COMPOSITION CODE (GL1896)

STANDARD MATERIAL TYPE CODE (RV2908)

MEASURED ELEMENT WEIGHT (SZ4504)

MEASURED ISOTOPIC WEIGHT (SZ3294)

MEASUREMENT BASIS (GL8327)

LEVEL 2

ORIGIN SEQUENCE ID (TV0423)

STANDARD MATERIAL TYPE CODE (RV2908)

BOOK BALANCE - ELEMENT WEIGHT (JC0852)

BOOK BALANCE - ISOTOPE WEIGHT (JC4888)

TITLE

IAEA MATERIAL BALANCE REPORT

PURPOSE

THIS REPORT, THE MBR, WILL PROVIDE TO IAEA THE INVENTORY DATA FROM EACH MBA THAT IS REQUIRED TO REPORT TO THE IAEA. IT IS SUBMITTED ALONG WITH THE PIL. A COPY OF THE REPORTED DATA WILL BE SENT TO THE APPROPRIATE FACILITY AND ONMSS PERSONNEL.

FREQUENCY: AT EACH PHYSICAL INVENTORY

PARAMETERS

MBA INPUT (P1)

BEGINNING DATE (P2)
- OF BEGINNING PHYSICAL INVENTORY

ENDING DATE (P3)
- OF ENDING PHYSICAL INVENTORY

DEFAULT = MOST RECENT INVENTORY PERIOD CLOSED BY A PHYS INVENTORY

SELECTION

SELECT
MATERIAL BAL AREA (RB)
WHERE
RIS SUFFIX (RB3520)
IS EQUAL TO
MBA INPUT (P1)

THEN VIA
IS INCLUDED IN AN ACCOUNT ID (RBTM)

ACCOUNT ID (TM)

THEN VIA
HAS MBA FORMULA LIMITS (RBCS)

MBA FORMULA LIMITS (CSS)

THEN VIA
IS IN TERMS OF MBA POSS LIMITS (CSXC)

MBA POSSESSION LIMITS (XCS)

THEN VIA
DEFINES REPORTABLE INVENTORIES (XCZV)

REPORTABLE INVENTORIE (ZVS)

THEN VIA
IS DEFINED BY AN NRC RANGE (ZVRV)

NRC RANGE (RV)

THEN FOR EACH
REPORTABLE INVENTORY (ZV)

```
  VIA
    HAS ASSOCIATED INVENTORY PERIODS                          (ZVQP   )

TO GET BEGINNING PHYSICAL INVENTORY:
    INVENTORY PERIOD                                          (QP     )
      WHERE
    DATE                                                      (QPB085)
      IS EQUAL TO
    BEGINNING DATE                                            (P2     )

THEN TO GET CREDITS
  VIA
    CROSS REF CREDITED BY TRANSACTION CONSTI                  (QPGLC  )

    TRANS CONSTITUENTS                                        (GLS    )
      WHERE
  VIA
    IS A PART OF TRANSACTION BATCH                            (GLKQ   )

  THEN VIA
    IS IDENTIFIED WITH ONE S/R PAIR                           (KQKX   )

  THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                     (KXPFR  )
      THE MOST RECENT
    TRANSACTION TYPE                                          (PF1408)
      IS NOT EQUAL TO "MUF"
THEN FOR EACH SELECTED
    TRANS CONSTITUENT                                         (GL     )

1)  VIA
    FALLS INTO NRC RANGE                                      (GLRV   )

    NRC RANGE                                                 (RV     )

2)  THEN VIA
    IS A PART OF TRANSACTION BATCH                            (GLKQ   )

    TRANSACTION BATCH                                         (KQ     )

  THEN VIA
    IS IDENTIFIED WITH ONE S/R PAIR                           (KQKX   )

  THEN VIA
    APPLIES TO TRANSFER SERIES                                (KXNX   )

  THEN VIA IF IT EXISTS:
    DEFINES FROM POINT AS COUNTRY FACILITY                    (NXRFF  )

    FOREIGN FACILITY                                          (RF     )

3)  THEN IF
    TYPE OF QUANTITY                                          (GL1346)
      IS EQUAL TO "MEASURED"
  THEN VIA
    MAY HAVE A SHIPPER MEASURED VALUE                         (GLSZS  )
```



```
    VALUE                                                     (SZ     )
```

```
  THEN VIA
    MAY HAVE A RECEIVER MEASURED VALUE                    (GLSZR )

    VALUE                                                 (SZ    )

THEN TO GET DEBITS
  VIA
    CROSS REF DEBITED BY TRANSACTION CONSTIT              (QPGLD )

    TRANS CONSTITUENTS                                    (GLS   )
      WHERE
  VIA
    IS A PART OF TRANSACTION BATCH                        (GLKQ  )

  THEN VIA
    IS IDENTIFIED WITH ONE S/R PAIR                       (KQKX  )

  THEN VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                  (KXPFS )
      THE MOST RECENT
    TRANSACTION TYPE                                      (PF1408)
      IS NOT EQUAL TO "MOF"
THEN FOR EACH SELECTED
    TRANS CONSTITUENT                                     (GL    )

1)  VIA
    FALLS INTO NRC RANGE                                  (GLRV  )

    NRC RANGE                                             (RV    )

2)  THEN VIA
    IS A PART OF TRANSACTION BATCH                        (GLKQ  )

    TRANSACTION BATCH                                     (KQ    )

  THEN VIA
    IS IDENTIFIED WITH ONE S/R PAIR                       (KQKX  )

  THEN VIA
    APPLIES TO TRANSFER SERIES                            (KXNX  )

  THEN VIA IF IT EXISTS:
    DEFINES TO POINT AS COUNTRY FACILITY                  (NXRFT )

    FOREIGN FACILITY                                      (RF    )

3)  THEN IF
    TYPE OF QUANTITY                                      (GL1346)
      IS EQUAL TO "MEASURED"
  THEN VIA
    MAY HAVE A SHIPPER MEASURED VALUE                     (GLSZS )

    VALUE                                                 (SZ    )

  THEN VIA
    MAY HAVE A RECEIVER MEASURED VALUE                    (GLSZR )
```



```
    VALUE                                                 (SZ    )
```

```
THEN TO GET MUF
  VIA
    CROSS REF CREDITED BY TRANSACTION CONSTI                    (QPGLC )

    TRANS CONSTITUENT                                           (GL    )
      WHERE
  VIA
    IS A PART OF TRANSACTION BATCH                              (GLKQ  )

  THEN VIA
    IS IDENTIFIED WITH ONE S/R PAIR                             (KQKX  )

  THEN VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                        (KXPFS )
      OR
    HAS A RECEIVER MATL ACCTG TRANSACTION                       (KXPFR )
      THE MOST RECENT
    TRANSACTION TYPE                                            (PF1408)
      IS EQUAL TO "MUF"
  THEN VIA
    FALLS INTO NRC RANGE                                        (GLRV  )

    NRC RANGE                                                   (RV    )

THEN TO GET ENDING PHYSICAL INVENTORY
  VIA
    HAS ASSOCIATED INVENTORY PERIODS                            (ZVQP  )

    INVENTORY PERIOD                                            (QP    )
      WHERE
    DATE                                                        (QP8085)
      IS EQUAL TO
    ENDING DATE                                                 (P3    )

DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                             (T46248)

    RIS SUFFIX                                                  (RB3520)

    BEGINNING DATE                                              (P2    )

    ENDING DATE                                                 (P3    )

LEVEL 2   (BEGINNING PHYSICAL INVENTORY)
    STANDARD MATERIAL TYPE CODE                                 (RV2908)

    BOOK BALANCE - ELEMENT WEIGHT                               (QP4790)

    BOOK BALANCE - ISOTOPE WEIGHT                               (QP4284)

LEVEL 2   (CREDITS)
    STANDARD MATERIAL TYPE CODE                                 (RV2908)

    TYPE OF INVENTORY CHANGE                                    (RQ9141)
```



```
EITHER
```

```
    MEASURED ELEMENT WEIGHT                                    (SZ4504)
      AND
    MEASURED ISOTOPIC WEIGHT                                   (SZ3294)

OR
    NONMEASURED ELEMENT WEIGHT                                 (FT4459)
      AND
    NONMEASURED ISOTOPE WEIGHT                                 (FT3535)

LEVEL 2   (DEBITS)
  SAME AS LEVEL 2 ABOVE)
LEVEL 2   (SHIPPER/RECEIVER DIFFERENCES)
  IF
    TYPE OF QUANTITY                                           (GL1346)
      IS EQUAL TO "MEASURED"
  AND IF
    DEFINES FROM POINT AS COUNTRY FACILITY                     (NXRFF )
      (FOR CREDITS)
  OR
    DEFINES TO POINT AS COUNTRY FACILITY                       (NXRFT )
      (FOR DEBITS)
  DOES NOT EXIST
  THEN
    STANDARD MATERIAL TYPE CODE                                (RV2908)

    TYPE OF INVENTORY CHANGE                                   (KQ9141)

    S/R ELEMENT DIFFERENCE                                     (C1    )

    S/R ISOTOPE DIFFERENCE                                     (C2    )

LEVEL 2   (ENDING BOOK BALANCE)
    STANDARD MATERIAL TYPE CODE                                (RV2908)

BEGINNING
    BOOK BALANCE - ELEMENT WEIGHT                              (QP4790)
      PLUS ABOVE CREDITS:
    MEASURED ELEMENT WEIGHT                                    (SZ4504)
      AND
    NONMEASURED ELEMENT WEIGHT                                 (FT4459)
      MINUS ABOVE DEBITS:
    MEASURED ELEMENT WEIGHT                                    (SZ4504)
      AND
    NONMEASURED ELEMENT WEIGHT                                 (FT4459)

BEGINNING
    BOOK BALANCE - ISOTOPE WEIGHT                              (QP4234)
      PLUS ABOVE CREDITS:
    MEASURED ISOTOPIC WEIGHT                                   (SZ3294)
      AND
    NONMEASURED ISOTOPE WEIGHT                                 (FT3535)
      MINUS ABOVE DEBITS:
    MEASURED ISOTOPIC WEIGHT                                   (SZ3294)
      AND
    NONMEASURED ISOTOPE WEIGHT                                 (FT3535)

LEVEL 2   (ENDING PHYSICAL INVENTORY)
    STANDARD MATERIAL TYPE CODE                                (RV2908)
```

BOOK BALANCE - ELEMENT WEIGHT (QP4790)

BOOK BALANCE - ISOTOPE WEIGHT (QP4284)

LEVEL 2 (MUF)

STANDARD MATERIAL TYPE CODE (RV2908)

NONMEASURED ELEMENT WEIGHT (FT4459)

NONMEASURED ISOTOPE WEIGHT (FT3535)

TITLE

CUMULATIVE INVENTORY DIFFERENCE REPORT

PURPOSE

THIS REPORT WILL LIST INVENTORY DIFFERENCES REPORTED DURING ALL INVENTORY PERIODS COMPLETED WITHIN A SPECIFIED TIME-FRAME FOR EACH STANDARD MATERIAL TYPE WITHIN A PARTICULAR MATERIAL REPORTING AREA. A RUNNING TOTAL WILL BE REPORTED FOR EACH INVENTORY PERIOD TO INDICATE THE CUMULATIVE INVENTORY DIFFERENCE FOR A SPECIFIED NUMBER OF INVENTORY PERIODS. THE REPORT CAN BE SELECTED FOR A SPECIFIED MBA OR FOR ALL MBA'S UNDER A SPECIFIED SITE.

FREQUENCY: SEMI-ANNUAL OR ON DEMAND (4/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 40 PAGES

PARAMETERS

REPORT OPTION	TYPE	FIXED TEXT	(P1)
	LENGTH	5	
INDICATE WHETHER BY SITE OR MBA			
DESIRED SITE	TYPE	FIXED TEXT	(P2)
	LENGTH	2	
ENTER ONLY IF REPORT IS BY SITE			
DESIRED RIS	TYPE	FIXED TEXT	(P3)
	LENGTH	3	
ENTER ONLY IF REPORT IS BY MBA			
DESIRED MBA	TYPE	FIXED TEXT	(P4)
	LENGTH	2	
ENTER ONLY IF REPORT IS BY MBA			
REPORT START DATE	TYPE	DATE	(P5)
	LENGTH	6	
REPORT END DATE	TYPE	DATE	(P6)
	LENGTH	6	
# OF PERIODS IN CUMULATIVE TOTALS	TYPE	FIXED TEXT	(P7)
	LENGTH	2	

CALCULATED RESULTS

CUMULATIVE ELEMENT INV DIFF	TYPE	FIXED TEXT	(C1)
	LENGTH	9	
FUNCTION OF			
MEASURED ELEMENT WEIGHT			(SZ4504)
AND			
# OF PERIODS IN CUMULATIVE TOTALS	TYPE	FIXED TEXT	(P7)
	LENGTH	2	
CUMULATIVE ISOTOPE INV DIFF	TYPE	FIXED TEXT	(C2)
	LENGTH	9	
FUNCTION OF			
MEASURED ISOTOPIC WEIGHT			(SZ3294)

```
 AND
    # OF PERIODS IN CUMULATIVE TOTALS          TYPE      FIXED TEXT    (P7     )
                                               LENGTH    2

SELECTION
---------
SELECT
    MATERIAL BAL AREA                                                  (RB     )
 AND
A) VIA
    IS IN A SITE                                                       (RBMX   )
 THE CORRESPONDING
    SITE                                                               (MX     )
 AND
B) VIA
    IS INCLUDED IN AN ACCCUNT ID                                       (RBTM   )
 THE CORRESPONDING
    ACCOUNT ID                                                         (TM     )

WHERE
    RIS SUFFIX                                                         (RB3520)
 EQUALS
    DESIRED MBA                            TYPE      FIXED TEXT    (P4     )
                                           LENGTH    2
 AND
    REPORTING IDENTIFICATION SYMBOL                                    (TM6248)
 EQUALS
    DESIRED RIS                            TYPE      FIXED TEXT    (P3     )
                                           LENGTH    3

OR
    FACILITY NAME                                                      (MX3850)
 EQUALS
    DESIRED SITE                           TYPE      FIXED TEXT    (P2     )
                                           LENGTH    2

THEN, FOR EACH SELECTED
    MATERIAL BAL AREA                                                  (RB     )
 VIA
    HAS MBA FORMULA LIMITS                                             (RBCS   )
 SELECT
    MBA FORMULA LIMITS                                                 (CSS    )
 AND FOR EACH, VIA
    IS DEFINED WITHIN LICENSE FORMULA LIMIT                            (CSFB   )
 THE CORRESPONDING
    LICENSE FORMULA LIMIT                                              (FB     )
 AND VIA
    IS DEFINED IN A LICENSE TE>T                                       (FBZT   )

    IS OWNED BY LICENSE                                                (ZTNH   )
 THE CORRESPONDING
    LICENSE                                                            (NH     )
 AND VIA
    APPLIES TO PHASE                                                   (NHKV   )
 THE CORRESPONDING
    PHASE                                                              (KV     )
 AND VIA
    FURTHER DEFINES LICENSE TYPE  -272-                                (KVVB   )
 THE CORRESPONDING
```

```
    LICENSE TYPE                                                    (VB     )

THEN
FOR EACH SELECTED
    MBA FORMULA LIMIT                                               (CS     )
 VIA
    IS IN TERMS OF MBA POSS LIMITS                                  (CSXC   )
 SELECT
    MBA POSSESSION LIMITS                                           (XCS    )

THEN VIA
    DEFINES REPORTABLE INVENTORIES                                  (XCZV   )

    REPORTABLE INVENTORIE                                           (ZVS    )
 AND VIA
    IS DEFINED BY AN NRC RANGE                                      (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                       (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                           (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                            (ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                            (ZV     )
 VIA
    HAS ASSOCIATED INVENTORY PERIODS                                (ZVQP   )
 SELECT
    INVENTORY PERIODS                                               (QPS    )
 WHERE
    DATE                                                            (QP8085)
 IS BOTH
A) GREATER THAN OR EQUAL TO
    REPORT START DATE                    TYPE    DATE               (P5     )
                                         LENGTH  6
 AND
B) LESS THAN OR EQUAL TO
    REPORT END DATE                      TYPE    DATE               (P6     )
                                         LENGTH  6

THEN, FOR EACH SELECTED
    INVENTORY PERIOD                                                (QP     )

1) TO GET THE INVENTORY DIFFERENCES ADDED DURING THE PERIOD
SELECT AS A PAIR, VIA
    CROSS REF CREDITED BY TRANSACTION CONSTI                        (QPGLC  )

    TRANS CONSTITUENT                                               (GL     )
 AND VIA
    IS A PART OF TRANSACTION BATCH                                  (GLKQ   )
 THE CORRESPONDING
    TRANSACTION BATCH                                               (KQ     )
 WHERE
    TYPE OF INVENTORY CHANGE                                        (KQ9141)
 IS 'INVENTORY DIFFERENCE'
THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                               (GL     )
 VIA
    MAY HAVE A RECEIVER MEASURED VALUE                              (GLSZR  )
```

```
 SELECT THE CORRESPONDING
    VALUE                                                          (SZ     )

2) TO GET THE INVENTORY DIFFERENCES SUBTRACTED DURING THE PERIOD
SELECT AS A PAIR, VIA
    CROSS REF DEBITED BY TRANSACTION CONSTIT                       (QPGLD  )

    TRANS CONSTITUENT                                              (GL     )
 AND VIA
    IS A PART OF TRANSACTION BATCH                                 (GLKQ   )
 THE CORRESPONDING
    TRANSACTION BATCH                                              (KQ     )
 WHERE
    TYPE OF INVENTORY CHANGE                                       (KQ9141)
 IS 'INVENTORY DIFFERENCE'
THEN, FOR EACH SELECTED
    TRANS CONSTITUENT                                              (GL     )
 VIA
    MAY HAVE A SHIPPER MEASURED VALUE                              (GLSZS  )
 SELECT THE CORRESPONDING
    VALUE                                                          (SZ     )

DISPLAY
-------
LEVEL 1
    FACILITY NAME                                                  (MX3850)

LEVEL 2
    REPORTING IDENTIFICATION SYMBOL                                (TM6248)

    RIS SUFFIX                                                     (RB3520)

LEVEL 3
    DOCKET NUMBER                                                  (NH2112)

    LICENSE NUMBER                                                 (NH2655)

LEVEL 4
    ELEMENT NAME                                                   (ZJ1115)

    ISOTOPE NUMBER                                                 (ZJ0356)

    STANDARD MATERIAL TYPE CODE                                    (RV2908)

    BEGINNING ENRICHMENT                                           (RV2567)

    ENDING ENRICHMENT                                              (RV2964)

LEVEL 5
    DATE                                                           (QP8085)

    BOOK BALANCE - ELEMENT WEIGHT                                  (QP4790)

    BOOK BALANCE - ISOTOPE WEIGHT                                  (QP4284)

LEVEL 6
NOT PRINTED
    TYPE OF INVENTORY CHANGE                                       (KQ9141)
```

```
    MEASURED ELEMENT WEIGHT                                          (SZ4504)

    MEASURED ISOTOPIC WEIGHT                                         (SZ3294)

LEVEL 5
SUM OF
    MEASURED ELEMENT WEIGHT                                          (SZ4504)

SUM OF
    MEASURED ISOTOPIC WEIGHT                                         (SZ3294)

    CUMULATIVE ELEMENT INV DIFF          TYPE      FIXED TEXT      (C1     )
                                         LENGTH    9

    CUMULATIVE ISOTOPE INV DIFF          TYPE      FIXED TEXT      (C2     )
                                         LENGTH    9
```

TITLE

TRANSACTION ANALYSIS REPORT

PURPOSE

FOR EVERY SHIPMENT WHOSE DATE OF SHIPMENT FALLS WITHIN A USER-SPECIFIED TIME FRAME, THE SHIPMENT AMOUNTS ARE COMPARED WITH THE SHIPPER'S MBA POSSESSION LIMITS FOR THAT MATERIAL. IF THE AMOUNTS SHIPPED EXCEED A USER-SPECIFIED PERCENTAGE OF THE ASSOCIATED POSSESSION LIMIT, THE TRANSACTION IS CLASSIFIED AN "IRREGULAR" TRANSACTION, AND PERTINENT DATA ABOUT IT APPEAR ON THIS REPORT.

FREQUENCY: AS REQUIRED (25/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 1 PAGE

PARAMETERS

MAXIMUM PERCENTAGE	TYPE LENGTH	FIXED TEXT 3	(P1)
REPORT START DATE	TYPE LENGTH	DATE 6	(P2)
REPORT END DATE	TYPE LENGTH	DATE 6	(P3)

CALCULATED RESULTS

ELEMENT % OF LIMIT	TYPE LENGTH	FIXED TEXT 3	(C1)
FUNCTION OF MEASURED ELEMENT WEIGHT			(SZ4504)
AND MAXIMUM ELEMENT WEIGHT			(XC2776)
ISOTOPE % OF LIMIT	TYPE LENGTH	FIXED TEXT 3	(C2)
FUNCTION OF MEASURED ISOTOPIC WEIGHT			(SZ3294)
AND MAXIMUM ISOTOPE WEIGHT			(XC1083)

SELECTION

SELECT AS A GROUP, ONLY IF ALL CONDITIONS ARE MET

TRANS CONSTITUENT	(GL)
AND	
1) TO DETERMINE IF TRANSACTION IS WITHIN SPECIFIED TIME-FRAME, VIA IS A PART OF TRANSACTION BATCH	(GLKQ)
WHICH IS IDENTIFIED WITH ONE S/R PAIR	(KQKX)
SHIPPER/RECEIVER PAIR	(KX)

```
 WHERE
    DATE SHIPPED                                                    (KX3205)
 IS BOTH
GREATER THAN OR EQUAL TO
    REPORT START DATE                    TYPE     DATE              (P2    )
                                         LENGTH   6
 AND
LESS THAN OR EQUAL TO
    REPORT END DATE                      TYPE     DATE              (P3    )
                                         LENGTH   6
 THEN VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                            (KXPFS )
 THE LATEST
    MAT ACCTG TRANSACTION                                           (PF    )

2) TO GET THE TRANSACTION VALUES FOR COMPARISON WITH MRA LIMITS, VIA
    MAY HAVE A SHIPPER MEASURED VALUE                               (GLSZS )
THE CORRESPONDING
    VALUE                                                           (SZ    )

3) TO GET THE MRA LIMITS FOR COMPARISON WITH THE TRANSACTION VALUES, VIA
    -AND DEBITS AN INVENTORY PERIOD                                 (GLQPD )
 WHICH
    IS A REPORTABLE INVENTORY                                       (QPZV  )
 WHICH
    IS DEFINED BY AN MBA POSS LIMIT                                 (ZVXC  )
 THE CORRESPONDING
    MBA POSSESSION LIMIT                                            (XC    )
 WHERE EITHER
    ELEMENT % OF LIMIT                   TYPE     FIXED TEXT        (C1    )
                                         LENGTH   3
 IS GREATER THAN
    MAXIMUM PERCENTAGE                   TYPE     FIXED TEXT        (P1    )
                                         LENGTH   3
 OR
    ISOTOPE % OF LIMIT                   TYPE     FIXED TEXT        (C2    )
                                         LENGTH   3
 IS GREATER THAN
    REPORT START DATE                    TYPE     DATE              (P2    )
                                         LENGTH   6

THEN, HAVING SELECTED A PARTICULAR GROUP, FOR EACH SELECTED
    TRANS CONSTITUENT                                               (GL    )
 VIA
    FALLS INTO NRC RANGE                                            (GLRV  )
 SELECT THE CORRESPONDING
    NRC RANGE                                                       (RV    )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                           (RVZJ  )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                            (ZJ    )

DISPLAY
-------
LEVEL 1
    DATE SHIPPED                                                    (KX3205)

    TRANSACTION NUMBER                                              (PF2530)
```

TRANSACTION TYPE			(PF1408)
SHIPPER RIS FROM 741			(PF2700)
RECEIVER RIS FROM 741			(PF3261)
ELEMENT NAME			(ZJ1115)
ISOTOPE NUMBER			(ZJ0356)
STANDARD MATERIAL TYPE CODE			(RV2908)
MEASURED ELEMENT WEIGHT			(SZ4504)
MEASURED ISOTOPIC WEIGHT			(SZ3294)
MAXIMUM ELEMENT WEIGHT			(XC2776)
MAXIMUM ISOTOPE WEIGHT			(XC1083)
ELEMENT % OF LIMIT	TYPE LENGTH	FIXED TEXT 3	(C1)
ISOTOPE % OF LIMIT	TYPE LENGTH	FIXED TEXT 3	(C2)

TITLE

TRANSACTION LIMIT OF ERROR REPORT

PURPOSE

THIS REPORT WILL LIST TRANSACTION INFORMATION FOR ALL TRANSACTIONS DATED WITHIN A SPECIFIED TIME-FRAME AND HAVING A MEASUREMENT ERROR IN EXCESS OF THE ASSOCIATED LIMIT OF ERROR.

FREQUENCY: UPON REQUEST (4/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 5 PAGES

PARAMETERS

REPORT START DATE	TYPE LENGTH	DATE 6	(P1)
REPORT END DATE	TYPE LENGTH	DATE 6	(P2)

SELECTION
---

1) TO GET THE SHIPPER MEASUREMENT ERRORS
SELECT AS A GROUP ONLY IF ALL CONDITIONS ARE MET
TRANS CONSTITUENT (GL)
AND BOTH
A) VIA
MAY HAVE A SHIPPER MEASURED VALUE (GLSZS)
THE CORRESPONDING
VALUE (SZ)
WHERE EITHER
ERROR (ELEMENT) (SZ3425)
IS GREATER THAN
ELEMENT LIMIT OF ERROR (PL0675)
OR
ERROR (ISOTOPIC) (SZ2237)
IS GREATER THAN
ISOTOPE LIMIT OF ERROR (PL1204)

B) VIA
IS A PART OF TRANSACTION BATCH (GLKQ)
WHICH
IS IDENTIFIED WITH ONE S/R PAIR (KQKX)
THE CORRESPONDING
SHIPPER/RECEIVER PAIR (KX)
WHERE
DATE SHIPPED (KX3205)
IS BOTH
GREATER THAN OR EQUAL TO
REPORT START DATE TYPE LENGTH DATE 6 (P1)
AND
LESS THAN OR EQUAL TO
REPORT END DATE TYPE DATE (P2)

```
                                                    LENGTH   6
 THEN VIA
    HAS A SHIPPER MATL ACCTG TRANSACTION                                (KXPFS )
 SELECT THE LATEST
    MAT ACCTG TRANSACTION                                               (PF    )

SELECTION
---------
2) TO GET THE RECEIVER MEASUREMENT ERRORS
SELECT AS A GROUP ONLY IF ALL CONDITIONS ARE MET
    TRANS CONSTITUENT                                                   (GL    )
 AND BOTH
A) VIA
    MAY HAVE A RECEIVER MEASURED VALUE                                  (GLSZR )
 THE CORRESPONDING
    VALUE                                                               (SZ    )
 WHERE EITHER
    ERROR (ELEMENT)                                                     (SZ3425)
 IS GREATER THAN
    ELEMENT LIMIT OF ERROR                                              (PL0675)
 OR
    ERROR (ISOTOPIC)                                                    (SZ2237)
 IS GREATER THAN
    ISOTOPE LIMIT OF ERROR                                              (PL1204)

B) VIA
    IS A PART OF TRANSACTION BATCH                                      (GLKQ  )
 WHICH
    IS IDENTIFIED WITH ONE S/R PAIR                                     (KQKX  )
 THE CORRESPONDING
    SHIPPER/RECEIVER PAIR                                               (KX    )
 WHERE
    DATE RECEIVED                                                       (KX1402)
 IS BOTH
GREATER THAN OR EQUAL TO
    REPORT START DATE                    TYPE     DATE                  (P1    )
                                         LENGTH   6
 AND
LESS THAN OR EQUAL TO
    REPORT END DATE                      TYPE     DATE                  (P2    )
                                         LENGTH   6
 THEN VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                               (KXPFR )
 SELECT THE LATEST
    MAT ACCTG TRANSACTION                                               (PF    )

THEN, IN EITHER CASE
1) FOR EACH SELECTED
    TRANS CONSTITUENT                                                   (GL    )
 VIA
    FALLS INTO NRC RANGE                                                (GLRV  )
 SELECT THE CORRESPONDING
    NRC RANGE                                                           (RV    )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                               (RVZJ  )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                                (ZJ    )
```



```
2) FOR EACH SELECTED
```

```
    SHIPPER/RECEIVER PAIR                                    (KX     )
 VIA
    APPLIES TO TRANSFER SERIES                               (KXNX   )
 SELECT THE CORRESPONDING
    TRANSFER SERIES                                          (NX     )
 THEN,
A) OBTAIN THE SHIPPERS RIS AS FOLLOWS
IF VIA
    DEFINES FROM POINT AS COUNTRY FACILITY                   (NXRFF  )
 SELECT THE CORRESPONDING
    FOREIGN FACILITY                                         (RF     )
 IF VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                  (NXRBF  )
 SELECT THE CORRESPONDING
    MATERIAL BAL AREA                                        (RB     )
 AND VIA
    IS INCLUDED IN AN ACCOUNT ID                             (RBTM   )
 THE CORRESPONDING
    ACCOUNT ID                                               (TM     )

B) OBTAIN THE RECEIVERS RIS AS FOLLOWS
IF VIA
    DEFINES TO POINT AS COUNTRY FACILITY                     (NXRFT  )
 SELECT THE CORRESPONDING
    FOREIGN FACILITY                                         (RF     )
 IF VIA
    DEFINES TO POINT AS MATL BALANCE AREA                    (NXRBT  )
 SELECT THE CORRESPONDING
    MATERIAL BAL AREA                                        (RB     )
 AND VIA
    IS INCLUDED IN AN ACCOUNT ID                             (RBTM   )
 THE CORRESPONDING
    ACCOUNT ID                                               (TM     )

DISPLAY
-------
LEVEL 1
IF FOR SHIPPER MEASUREMENT ERROR
    DATE SHIPPED                                             (KX3205)

IF FOR RECEIVER MEASUREMENT ERROR
    DATE RECEIVED                                            (KX1402)


    TRANSACTION TYPE                                         (PF1408)

    TRANSACTION NUMBER                                       (PF2530)

    SHIPPER LICENSE # - 741                                  (PF8756)

    SHIPPER FACILITY NAME - 741                              (PF0242)

    SHIPPER'S ADDRESS - 741                                  (PF3124)

    RECEIVER LICENSE # - 741                                 (PF9581)

    RECEIVER FACILITY NAME - 741                             (PF4807)
```



```
    RECEIVER'S ADDRESS - 741                                 (PF8052)
```

```
SHIPPER'S RIS AS FOLLOWS
IF VIA
    DEFINES FROM POINT AS COUNTRY FACILITY                    (NXRFF )

    FACILITY RIS                                              (RF5819)
 IF VIA
    DEFINES FROM POINT AS MATL BALANCE AREA                   (NXRBF )
 WHICH
    IS INCLUDED IN AN ACCOUNT ID                              (RBTM  )

    REPORTING IDENTIFICATION SYMBOL                           (TM6248)

SIMILARLY, RECEIVER'S RIS
EITHER
    FACILITY RIS                                              (RF5819)
 OR
    REPORTING IDENTIFICATION SYMBOL                           (TM6248)


    ELEMENT NAME                                              (ZJ1115)

    ISOTOPE NUMBER                                            (ZJ0356)

    STANDARD MATERIAL TYPE CODE                               (RV2908)

    MEASURED ELEMENT WEIGHT                                   (SZ4504)

    MEASURED ISOTOPIC WEIGHT                                  (SZ3294)

    ERROR (ELEMENT)                                           (SZ3425)

    ERROR (ISOTOPIC)                                          (SZ2237)

    ELEMENT LIMIT OF ERROR                                    (PL0675)

    ISOTOPE LIMIT OF ERROR                                    (PL1204)
```

TITLE

DOE MATERIAL BY LICENSEE

PURPOSE

THIS REPORT WILL LIST BY STANDARD MATERIAL TYPE, THE DOE OWNED MATERIAL IN A SPECIFIED MATERIAL BALANCE AREA AS OF THE CURRENT DATE.

FREQUENCY: ON DEMAND (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 250 PAGES

PARAMETERS

DESIRED RIS	TYPE LENGTH	FIXED TEXT 3	(P1)
DESIRED MRA	TYPE LENGTH	FIXED TEXT 2	(P2)

SELECTION

SELECT			
ACCOUNT ID			(TM)
WHERE			
REPORTING IDENTIFICATION SYMBOL			(TM6248)
EQUALS			
DESIRED RIS	TYPE LENGTH	FIXED TEXT 3	(P1)
THEN VIA			
INCLUDES MATL BALANCE AREAS			(TMRB)
SELECT THE			
MATERIAL BAL AREA			(RB)
FOR WHICH			
RIS SUFFIX			(RB3520)
EQUALS			
DESIRED MRA	TYPE LENGTH	FIXED TEXT 2	(P2)
AND VIA			
IS IN A SITE			(RBMX)
THE CORRESPONDING			
SITE			(MX)
THEN, FOR EACH SELECTED			
MATERIAL BAL AREA			(RB)
VIA			
HAS MBA FORMULA LIMITS			(RBCS)
SELECT			
MBA FORMULA LIMITS			(CSS)
AND VIA			
IS DEFINED WITHIN LICENSE FORMULA LIMIT			(CSFB)
WHICH			
IS DEFINED IN A LICENSE TEXT			(FBZT)
WHICH			
IS OWNED BY LICENSE			(ZTNH)

```
 THE CORRESPONDING
    LICENSE                                                    (NH     )
 THEN, FOR EACH SELECTED
    MBA FORMULA LIMIT                                          (CS     )
 VIA
    IS IN TERMS OF MBA POSS LIMITS                             (CSXC   )
 SELECT
    MBA POSSESSION LIMITS                                      (XCS    )
 THEN VIA
    DEFINES REPORTABLE INVENTORIES                             (XCZV   )

    REPORTABLE INVENTORIE                                      (ZVS    )
 AND VIA
    IS DEFINED BY AN NRC RANGE                                 (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                  (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                      (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                       (ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                       (ZV     )
 VIA
    HAS ASSOCIATED INVENTORY PERIODS                           (ZVQP   )
 SELECT THE LATEST
    INVENTORY PERIOD                                           (QP     )

THEN VIA
    HAS OWNER AMOUNTS                                          (QPDS   )

    OWNER AMOUNTS                                              (DSS    )
 WHERE
    IS DOE-OWNED                                               (DSSV   )
    EXISTS
DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                            (TM6248)

    RIS SUFFIX                                                 (RB3520)

    LICENSE NUMBER                                             (NH2655)

    FACILITY NAME                                              (MX3850)

LEVEL 2
    ELEMENT NAME                                               (ZJ1115)

    ISOTOPE NUMBER                                             (ZJ0356)

LEVEL 3
    STANDARD MATERIAL TYPE CODE                                (RV2908)

    BEGINNING ENRICHMENT                                       (RV2567)

    ENDING ENRICHMENT                                          (RV2964)
```



```
SUM OF
```

BOOK BALANCE - ELEMENT WEIGHT (DS0753)

SUM OF
BOOK BALANCE - ISOTOPE WEIGHT (DS4900)

LEVEL 2
SUM OF
BOOK BALANCE - ELEMENT WEIGHT (DS0753)

SUM OF
BOOK BALANCE - ISOTOPE WEIGHT (DS4900)

TITLE

MATERIAL ACCOUNTING TRANSACTIONS BY OWNER

PURPOSE

THIS REPORT LISTS ALL TRANSACTION WHICH OCCURRED WITHIN A SPECIFIED TIME-FRAME AND WHICH ARE ASSOCIATED WITH A PARTICULAR OWNER RIS.

FREQUENCY: UPON REQUEST (4/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 300 PAGES

PARAMETERS

DESIRED OWNER RIS	TYPE	FIXED TEXT	(P1)
	LENGTH	3	
REPORT START DATE	TYPE	DATE	(P2)
	LENGTH	6	
REPORT END DATE	TYPE	DATE	(P3)
	LENGTH	6	

SELECTION

SELECT			
OWNER			(VD)
WHERE			
OWNER RIS (IF ANY)			(VD3718)
EQUAL			
DESIRED OWNER RIS	TYPE	FIXED TEXT	(P1)
	LENGTH	3	
OR SELECT			
ACCOUNT ID			(TM)
WHERE			
REPORTING IDENTIFICATION SYMBOL			(TM6248)
EQUAL			
DESIRED OWNER RIS	TYPE	FIXED TEXT	(P1)
	LENGTH	3	
THEN VIA			
MAY HAVE AN OWNER			(TMVD)
OWNER			(VD)
THEN IN ANY CASE, VIA THE APPROPRIATE			
MAY OWN MATERIAL OCCURRING IN A S/R PAIR			(VDKX)
OR			
MAY HAVE MAT'L SHIPPED IN A S/R PAIR			(TMKX)
SHIP/REC PAIRS			(KXS)
WHERE			
DATE RECEIVED			(KX1402)
IS BOTH			
GREATER THAN OR EQUAL TO			
REPORT START DATE	TYPE	DATE	(P2)

```
                                                LENGTH   6
 AND
LESS THAN OR EQUAL TO
    REPORT END DATE                             TYPE     DATE          (P3     )
                                                LENGTH   6

AND VIA
    HAS A RECEIVER MATL ACCTG TRANSACTION                              (KXPFR  )
 SELECT THE LATEST
    MAT ACCTG TRANSACTION                                              (PF     )
 THEN, FOR EACH SELECTED
    SHIPPER/RECEIVER PAIR                                              (KX     )
 VIA
    HAS TRANSACTION BATCHES                                            (KXKQ   )
 SELECT
    TRANSACTION BATCHES                                                (KQS    )
 THEN VIA
    CONTAINS TRANSACTION CONSTITUENTS                                  (KQGL   )

    TRANS CONSTITUENTS                                                 (GLS    )
 AND FOR EACH
1) IF
    TYPE OF QUANTITY                                                   (GL1346)
 IS 'MEASUREMENT', VIA
    MAY HAVE A RECEIVER MEASURED VALUE                                 (GLSZR  )
 SELECT THE CORRESPONDING
    VALUE                                                              (SZ     )
 OTHERWISE, THE SUBCONSTRUCT
    NONMEASUREMENT                                                     (FT     )
 CONTAINS THE REQUIRED DATA.
2) VIA
    FALLS INTO NRC RANGE                                               (GLRV   )
SELECT THE CORRESPONDING
    NRC RANGE                                                          (RV     )
AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                              (RVZJ   )
THE CORRESPONDING
    NRC BALANCE MATERIAL                                               (ZJ     )

DISPLAY
-------
LEVEL 1
    OWNER RIS (IF ANY)                                                 (VD3718)

    OWNER NAME                                                         (VD2728)

  AND IF
    REPORTING IDENTIFICATION SYMBOL                                    (TM6248)
   EQUAL
    DESIRED OWNER RIS                           TYPE     FIXED TEXT    (P1     )
                                                LENGTH   3
   THEN
    REPORTING IDENTIFICATION SYMBOL                                    (TM6248)

LEVEL 2
    SHIPPER RIS FROM 741                                               (PF2700)

    RECEIVER RIS FROM 741                                              (PF3261)
```

DATE SHIPPED (KX3205)

DATE RECEIVED (KX1402)

TYPE OF INVENTORY CHANGE (KQ9141)

LEVEL 3

ELEMENT NAME (ZJ1115)

ISOTOPE NUMBER (ZJ0356)

STANDARD MATERIAL TYPE CODE (RV2908)

TYPE OF QUANTITY (GL1346)

EITHER

NONMEASURED ELEMENT WEIGHT (FT4459)

OR

MEASURED ELEMENT WEIGHT (SZ4504)

EITHER

NONMEASURED ISOTOPE WEIGHT (FT3535)

OR

MEASURED ISOTOPIC WEIGHT (SZ3294)

TITLE

MATERIAL ORIGIN BOOK BALANCE

PURPOSE

THIS REPORT WILL LIST BY STANDARD MATERIAL TYPE THE ORIGIN SEQUENCE FOR THE SPECIAL NUCLEAR MATERIAL IN A SPECIFIED MATERIAL REPORTING AREA AS OF THE CURRENT DATE.

FREQUENCY: UPON REQUEST (50/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 10 PAGES

PARAMETERS

DESIRED RIS	TYPE	FIXED TEXT	(P1)
	LENGTH	3	
DESIRED MRA	TYPE	FIXED TEXT	(P2)
	LENGTH	2	

SELECTION

SELECT			
ACCOUNT ID			(TM)
WHERE			
REPORTING IDENTIFICATION SYMBOL			(TM6248)
EQUALS			
DESIRED RIS	TYPE	FIXED TEXT	(P1)
	LENGTH	3	
THEN VIA			
INCLUDES MATL BALANCE AREAS			(TMRB)
SELECT THE			
MATERIAL BAL AREA			(RB)
FOR WHICH			
RIS SUFFIX			(RB3520)
EQUALS			
DESIRED MRA	TYPE	FIXED TEXT	(P2)
	LENGTH	2	
AND VIA			
IS IN A SITE			(RBMX)
THE CORRESPONDING			
SITE			(MX)
THEN, FOR EACH SELECTED			
MATERIAL BAL AREA			(RB)
VIA			
HAS MBA FORMULA LIMITS			(RBCS)
SELECT			
MBA FORMULA LIMITS			(CSS)
AND VIA			
IS DEFINED WITHIN LICENSE FORMULA LIMIT			(CSFB)
WHICH			
IS DEFINED IN A LICENSE TEXT			(FBZT)
WHICH			
IS OWNED BY LICENSE			(ZTNH)

```
 THE CORRESPONDING
    LICENSE                                                    (NH     )
 THEN, FOR EACH SELECTED
    MBA FORMULA LIMIT                                          (CS     )
 VIA
    IS IN TERMS OF MBA POSS LIMITS                             (CSXC   )
 SELECT
    MBA POSSESSION LIMITS                                      (XCS    )
 THEN VIA
    DEFINES REPORTABLE INVENTORIES                             (XCZV   )

    REPORTABLE INVENTORIE                                      (ZVS    )
 AND VIA
    IS DEFINED BY AN NRC RANGE                                 (ZVRV   )
 THE CORRESPONDING
    NRC RANGE                                                  (RV     )
 AND VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                      (RVZJ   )
 THE CORRESPONDING
    NRC BALANCE MATERIAL                                       (ZJ     )

THEN, FOR EACH SELECTED
    REPORTABLE INVENTORY                                       (ZV     )
 VIA
    HAS ASSOCIATED INVENTORY PERIODS                           (ZVQP   )
 SELECT THE LATEST
    INVENTORY PERIOD                                           (QP     )

THEN VIA
    MAY HAVE ORIGIN SEQ AMOUNTS                                (QPJC   )

    ORIGIN SEQ AMOUNTS                                         (JCS    )
 THEN VIA
    MAY HAVE S/G RESP COUNTRIES-CROSS REF                      (JCMC   )

    COUNTRIES                                                  (MCS    )
   AND VIA
    IS THE AMOUNT OF AN ORIGIN SEQUENCE                        (JCTV   )
 THE CORRESPONDING
    ORIGIN SEQUENCE                                            (TV     )

DISPLAY
-------
LEVEL 1
    REPORTING IDENTIFICATION SYMBOL                            (TM6248)

    RIS SUFFIX                                                 (RB3520)

    LICENSE NUMBER                                             (NH2655)

    FACILITY NAME                                              (MX3850)

LEVEL 2
    ELEMENT NAME                                               (ZJ1115)

    ISOTOPE NUMBER                                             (ZJ0356)
```



```
LEVEL 3
    STANDARD MATERIAL TYPE CODE                                (RV2908)
```

BEGINNING ENRICHMENT (RV2567)

ENDING ENRICHMENT (RV2964)

LEVEL 4
ORIGIN SEQUENCE ID (TV0423)

BOOK BALANCE - ELEMENT WEIGHT (JC0852)

BOOK BALANCE - ISOTOPE WEIGHT (JC4888)

LEVEL 5 (IN ORDER-COUNTRIES CLAIMING SAFEGUARDS ATTACHMENT)
COUNTRY ID CODE (MC9724)

NAME OF COUNTRY (MC0891)

LEVEL 3
SUM OF
BOOK BALANCE - ELEMENT WEIGHT (JC0852)

SUM OF
BOOK BALANCE - ISOTOPE WEIGHT (JC4888)

TITLE

COUNTRY LISTING BY ORIGIN SEQUENCE

PURPOSE

THIS WILL LIST, IN CHRONOLOGICAL ORDER OF POSSESSION, THE COUNTRIES IN A PARTICULAR ORIGIN SEQUENCE

FREQUENCY: AS REQUIRED (12/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 20 PAGES

PARAMETERS

DESIRED ORIGIN SEQUENCE	(P1)

SELECTION

SELECT	
ORIGIN SEQUENCE	(TV)
WHERE	
ORIGIN SEQUENCE ID	(TV0423)
EQUALS	
DESIRED ORIGIN SEQUENCE	(P1)
THEN VIA	
CROSS REF COUNTRIES	(TVMC)
SELECT, IN ORDER, ALL	
COUNTRY	(MC)

DISPLAY

LEVEL 1	
ORIGIN SEQUENCE ID	(TV0423)
LEVEL 2	
NAME OF COUNTRY	(MC0891)

TITLE

LOCATION AND AMT OF MATL OF SPECIFIED ORIGIN SEQ

PURPOSE

THIS REPORT LISTS FOR MATERIAL OF A USER-SPECIFIED ORIGIN SEQUENCE, THE LOCATION IN THE US BY RIS.

FREQUENCY: UPON REQUEST

PARAMETERS

ORIGIN SEQ ID INPUT (P1)
DEFAULT = ALL
RIS INPUT (P2)
DEFAULT = ALL

CALCULATED RESULTS

TOTAL ELEMENT WEIGHT (C1)
AS A FUNCTION OF
BOOK BALANCE - ELEMENT WEIGHT (JC0852)

TOTAL ISOTOPE WEIGHT (C2)
AS A FUNCTION OF
BOOK BALANCE - ISOTOPE WEIGHT (JC4888)

SELECTION

SELECT
ORIGIN SEQUENCE (TV)
WHERE
ORIGIN SEQUENCE ID (TV0423)
IS EQUAL TO
ORIGIN SEQ ID INPUT (P1)
THEN VIA
CROSS REF COUNTRIES (TVMC)

COUNTRIES (MCS)
IN SEQUENCE
THEN VIA
HAS ORIGIN SEQUENCE AMOUNTS (TVJC)

ORIGIN SEQ AMOUNTS (JCS)
WHERE VIA
APPLIES TO AN INVENTORY PERIOD (JCQP)

INVENTORY PERIOD (QP)
THEN VIA
IS A REPORTABLE INVENTORY (QPZV)

REPORTABLE INVENTORY (ZV)
THEN VIA
IS DEFINED BY AN MBA POSS LIMIT (ZVXC)

MBA POSSESSION LIMIT (XC)
THEN VIA
APPLIES TO MBA FORMULA LIMIT (XCCS)

```
    MBA FORMULA LIMIT                                          (CS      )
      THEN VIA
    IS DEFINED FOR AN MBA                                      (CSRB    )

    MATERIAL BAL AREA                                          (RB      )
      THEN VIA
    IS INCLUDED IN AN ACCOUNT ID                               (RBTM    )

    ACCOUNT ID                                                 (TM      )

    REPORTING IDENTIFICATION SYMBOL                            (TM6248  )
      IS EQUAL TO
    RIS INPUT                                                  (P2      )

  THEN FOR EACH SELECTED
    ORIGIN SEQ AMOUNT                                          (JC      )

1)VIA
    MAY HAVE S/G RESP COUNTRIES-CROSS REF                      (JCMC    )

    COUNTRIES                                                  (MCS     )
      IN ORDER
2)VIA
    APPLIES TO AN INVENTORY PERIOD                             (JCQP    )

    INVENTORY PERIOD                                           (QP      )
      THEN VIA
    IS A REPORTABLE INVENTORY                                  (QPZV    )

    REPORTABLE INVENTORY                                       (ZV      )
      THEN VIA
    IS DEFINED BY AN NRC RANGE                                 (ZVRV    )

    NRC RANGE                                                  (RV      )
      THEN VIA
    IS A RANGE OF AN NRC BALANCE MATERIAL                      (RVZJ    )

    NRC BALANCE MATERIAL                                       (ZJ      )

  THEN FOR EACH
    REPORTABLE INVENTORY                                       (ZV      )

  VIA
    IS DEFINED BY AN MBA POSS LIMIT                            (ZVXC    )

    MBA POSSESSION LIMIT                                       (XC      )
      THEN VIA
    APPLIES TO MBA FORMULA LIMIT                               (XCCS    )

    MBA FORMULA LIMIT                                          (CS      )
      THEN VIA
    IS DEFINED FOR AN MBA                                      (CSRB    )

    MATERIAL BAL AREA                                          (RB      )
      THEN VIA
    IS IN A SITE                                               (RBMX    )

    SITE                                                       (MX      )
```

DISPLAY

LEVEL 1
ORIGIN SEQUENCE ID (TV0423)

LEVEL 2 (IN SEQUENCE)
COUNTRY ID CODE (MC9724)

NAME OF COUNTRY (MC0891)

LEVEL 2
REPORTING IDENTIFICATION SYMBOL (T46248)

LEVEL 3
RIS SUFFIX (RB3520)

FACILITY NAME (MX3850)

FACILITY ADDRESS (MX8349)

LEVEL 4
ELEMENT NAME (ZJ1115)

ISOTOPE NUMBER (ZJ0356)

LEVEL 5
STANDARD MATERIAL TYPE CODE (RV2908)

BEGINNING ENRICHMENT (RV2567)

ENDING ENRICHMENT (RV2964)

BOOK BALANCE - ELEMENT WEIGHT (JC0852)

BOOK BALANCE - ISOTOPE WEIGHT (JC4888)

LEVEL 6 (IN ORDER--COUNTRIES CLAIMING S/G ATTACHMENT)
COUNTRY ID CODE (MC9724)

NAME OF COUNTRY (MC0891)

LEVEL 4
TOTAL ELEMENT WEIGHT (C1)

TOTAL ISOTOPE WEIGHT (C2)

TITLE

LOCATION OF MATL OF SPECIFIED COUNTRY IN ORIGIN SEQ

PURPOSE

FOR A GIVEN COUNTRY WHICH IS AT A USER-SPECIFIED LEVEL IN AN ORIGIN SEQUENCE, THIS REPORT LISTS THE QUANTITIES AND LOCATIONS IN THE US OF MATERIAL ASSOCIATED WITH THAT COUNTRY.

FREQUENCY: UPON REQUEST

PARAMETERS

COUNTRY ID INPUT (P1)

\# IN SEQUENCE (P2)
IE, SPECIFY "2" FOR LOCATION OF MATERIAL HAVING AN ORIGIN SEQUENCE WITH THIS COUNTRY 2ND IN THE SEQUENCE

CALCULATED RESULTS

TOTAL ELEMENT WEIGHT (C1)
AS A FUNCTION OF
BOOK BALANCE - ELEMENT WEIGHT (JC0852)

TOTAL ISOTOPE WEIGHT (C2)
AS A FUNCTION OF
BOOK BALANCE - ISOTOPE WEIGHT (JC4888)

SELECTION

SELECT
ORIGIN SEQUENCES (TVS)
WHERE VIA
CROSS REF COUNTRIES (TVMC)
ORDERED,
COUNTRY ID INPUT (P1)
IS EQUAL TO THE
COUNTRY ID CODE (MC9724)
THAT IS
\# IN SEQUENCE (P2)
IN THE ORDERED SEQUENCE:
CROSS REF COUNTRIES (TVMC)

THEN FOR EACH SELECTED
ORIGIN SEQUENCE (TV)

VIA
HAS ORIGIN SEQUENCE AMOUNTS (TVJC)

ORIGIN SEQ AMOUNTS (JCS)
THEN VIA
APPLIES TO AN INVENTORY PERIOD (JCQP)

INVENTORY PERIOD (QP)
THEN VIA
IS A REPORTABLE INVENTORY (QPZV)

REPORTABLE INVENTORY (ZV)
THEN FOR EACH
REPORTABLE INVENTORY (ZV)

1)VIA
IS DEFINED BY AN NRC RANGE (ZVRV)

NRC RANGE (RV)
THEN VIA
IS A RANGE OF AN NRC BALANCE MATERIAL (RVZJ)

NRC BALANCE MATERIAL (ZJ)

2)VIA
IS DEFINED BY AN MBA POSS LIMIT (ZVXC)

MBA POSSESSION LIMIT (XC)
THEN VIA
APPLIES TO MBA FORMULA LIMIT (XCCS)

MBA FORMULA LIMIT (CS)
THEN VIA
IS DEFINED FOR AN MBA (CSRB)

MATERIAL BAL AREA (RB)

THEN VIA
IS INCLUDED IN AN ACCOUNT ID (RBTM)

ACCOUNT ID (TM)
THEN VIA
IS IN A SITE (RBMX)

SITE (MX)

DISPLAY

LEVEL 1
COUNTRY ID CODE (MC9724)

NAME OF COUNTRY (MC0891)

COUNTRY IAEA CODE (MC2545)

COUNTRY RIS (MC1958)

NPT STATUS (MC4136)

DATE OF NPT SIGNING (MC5875)

DOS CONTACT NAME (MC5368)

DOS OFFICE SYMBOL (ADDRESS) (MC8316)

DOS CONTACT PHONE NUMBER (MC3514)

DOS CONTACT DATA ENTRY DATE (MC9702)

LEVEL 2 (FOR EACH ORIGIN SEQ WHERE ABOVE COUNTRY IS AT THE DESIRED

LEVEL)
ORIGIN SEQUENCE ID (TV0423)

LEVEL 2
REPORTING IDENTIFICATION SYMBOL (TM6248)

LEVEL 3
RIS SUFFIX (RB3520)

FACILITY NAME (MX3850)

FACILITY ADDRESS (MX8349)

LEVEL 4
ELEMENT NAME (ZJ1115)

ISOTOPE NUMBER (ZJ0356)

TOTAL ELEMENT WEIGHT (C1)

TOTAL ISOTOPE WEIGHT (C2)

TITLE

MATERIAL ACCOUNTING TRANSACTION FORM

PURPOSE

THIS FORM IS USED TO INPUT DATA FOR THE MATERIAL ACCOUNTING TRANSACTION AND LINE ITEM CONSTRUCTS. THE CORRECTION SEQUENCE AND ERROR CONSTRUCTS ARE ISIS-GENERATED AS APPROPRIATE. THE DATA ON THIS FORM WILL ALSO BE USED TO GENERATE VARIOUS SOFTWARE INTERNAL FORMS USED BY UPDATE PROGRAMS TO MAINTAIN CERTAIN OTHER CONSTRUCT(SEE PROCESSING NOTES BELOW).

LEVEL 1

UPDATE
MAT ACCTG TRANSACTION (PF)
KEYED BY
TRANSACTION NUMBER (PF2530)

DATA RELATIONSHIP
EITHER
MAY BE SHIPPER'S HALF IN S/R PAIR (PFKXS)
OR
MAY BE RECEIVER'S HALF IN S/R PAIR (PFKXR)
KEYED BY
TRANSFER SERIAL NUMBER (KX1012)

DATA RELATIONSHIP
MAY HAVE CORRECTION SEQUENCE (PFMB)
KEYED BY
CORRECTION SEQ ID

OTHER DATA
DATE SHIPPED (KX3205)

DATE RECEIVED (KX1402)

STATUS FLAG (PF5896)

SHIPPER RIS FROM 741 (PF2700)

RECEIVER RIS FROM 741 (PF3261)

CORRECTION NUMBER (PF9262)

ACTION DATE CODE (PF4048)

SHIPPER LICENSE # - 741 (PF8756)

RECEIVER LICENSE # - 741 (PF9581)

SHIPPED FOR ACCOUNT OF (RIS) (PF3844)

SHIPPED TO ACCOUNT OF (RIS) (PF0462)

IMPORT/EXPORT LICENSE NUMBER ON 741 (PF8910)

U.S. PORT OF ENTRY/EXIT	(PF2057)
DATE OF CAPTURE	(PF4356)
TRANSACTION TYPE	(PF1408)
NATURE OF TRANSACTION	(PF4345)
ACTION DATE	(PF0638)
SHIPPER FACILITY NAME - 741	(PF0242)
SHIPPER'S ADDRESS - 741	(PF3124)
SHIPPER RESPONSIBLE PERSON	(PF3608)
SHIPPER RESPONSIBLE PERSON'S PHONE #	(PF7865)
RECEIVER'S ADDRESS - 741	(PF8052)
RECEIVER FACILITY NAME - 741	(PF4807)
RECEIVER RESPONSIBLE PERSON	(PF2475)
RECEIVER RESPONSIBLE PERSON'S PHONE #	(PF0352)
NUMBER OF DATA LINES	(PF4426)
SHIPPED FOR ACCOUNT OF (NAME)	(PF3777)
SHIPPED TO ACCOUNT OF (NAME)	(PF1379)
TRANSFER AUTHORITY	(PF0088)
MATL TYPE AND DESCRIPTION	(PF3975)
MISCELLANEOUS COMMENTS	(PF2589)
TRANSPORTATION PROFILE	(PF0203)
PACKAGE IDENTIFICATION	(PF2590)
TOTAL GROSS WEIGHT	(PF4217)
TOTAL VOLUME	(PF0235)
IAEA REPORT STATUS	(PF0169)

LEVEL 2

UPDATE	
LINE ITEM	(HN)
KEYED BY	
PHYSICAL LINE NUMBER - ISIS GENERATED	(HN3910)
IDENTITY RELATIONSHIP	
IS FROM A MATL ACCTG TRANSACTION	(HNPF)
OTHER IDENTITY DATA	

LINE NUMBER (HN4262)

CORRECTION STATUS (HN4922)

OTHER DATA

TYPE OF INVENTORY CHANGE (HN1391)

BATCH IDENTIFICATION (HN4460)

NUMBER OF ITEMS (HN2403)

PROJECT NUMBER (HN4482)

MATERIAL TYPE (HN0686)

COMPOSITION CODE (HN1907)

PRODUCTION CODE (HN4558)

OWNER CODE (HN2623)

ORIGIN SEQUENCE ID (HN0830)

KEY MEASUREMENT POINT (HN0511)

MEASUREMENT BASIS (HN1501)

GROSS WEIGHT (HN4569)

NET WEIGHT (HN3954)

ELEMENT WEIGHT (HN4415)

ELEMENT LIMIT OF ERROR (HN4327)

WEIGHT PERCENT ISOTOPE (HN0829)

ISOTOPE WEIGHT (HN0313)

ISOTOPE LIMIT OF ERROR (HN1225)

PROCESSING NOTES

THE DATA FROM THIS FORM CAN BE USED TO GENERATE THE FOLLOWING ISIS INTERNAL FORMS: F1115, F5994.

TITLE

PHYSICAL INVENTORY REPORTING FORM

PURPOSE

THIS FORM IS USED TO INPUT ALL DATA REQUIRED BY ISIS CONCERNING A PHYSICAL INVENTORY CONDUCTED BY AN NRC LICENSEE. THIS DATA IS NOT RELATED TO A SPECIFIC ISIS CONSTRUCT. INSTEAD, THE INPUTTING OF THIS FORM WILL TRIGGER THE AUTOMATIC GENERATION OF VARIOUS SOFTWARE INTERNAL FORMS USED BY UPDATE PROGRAMS TO MAINTAIN THE APPROPRIATE CONSTRUCTS. THIS FORM IS THE ISIS EQUIVALENCE OF NRC/ERDA FORM 742.

LEVEL 1

IDENTITY DATA

LICENSE NUMBER	(NH2655)
REPORTING IDENTIFICATION SYMBOL	(TM6248)
RIS SUFFIX	(RB3520)
STANDARD MATERIAL TYPE CODE	(RV2908)
ENRICHMENT	
REPORT PERIOD START DATE	
REPORT PERIOD END DATE	

LEVEL 2

OWNER CODE	(LC0693)
TOTAL OWNER ELEMENT WEIGHT	
TOTAL OWNER ISOTOPE WEIGHT	
INVENTORY COMPOSITION CODE	(KL4944)
ELEMENT WEIGHT	(KL3162)
ISOTOPE WEIGHT	(KL3272)
SCRAP PROGRAM	(KL0268)
UESA CATEGORY CODE	(KL4724)
WEIGHT PERCENT ISOTOPE	(KL3052)
ERDA PROJECT	(KL0940)
UESA PRODUCTION CODE	(KL1929)

LEVEL 2

ORIGIN SEQUENCE ID	(TV0423)

TOTAL ORIGIN SEQ ELEMENT WEIGHT

TOTAL ORIGIN SEQ ISOTOPE WEIGHT

LEVEL 3

COUNTRY (MC)

LEVEL 2

FOR CARRY-OVER ITEMS
ITEM NUMBER/SERIAL (CF0726)

LEVEL 2

BATCH NUMBER (CM7150)

LEVEL 3

FOR ITEMS WITHIN THE BATCH
BATCH NUMBER (CM7150)

PROCESSING NOTES

THE DATA ON THIS FORM IS USED TO UPDATE THE REPORTABLE INVENTORY (WHEN NEW), INVENTORY BATCH, AND AMOUNT/COMPOSITION CONSTRUCTS AND TO INITIATE CLOSE-OUT TOTALS BE GENERATED FOR INVENTORY PERIOD, OWNER AMOUNT, AND ORIGIN SEQUENCE AMOUNT CONSTRUCTS.

TITLE

TRANSACTION UPDATE FORM

PURPOSE

THIS FORM IS A SOFTWARE INTERNAL FORM USED TO MAINTAIN THE SHIP/REC PAIR, TRANSACTION BATCH, AND TRANSACTION CONSTITUENT CONSTRUCTS, AS WELL AS UPDATING THE MOST RECENT INVENTORY PERIOD, ORIGIN SEQ AMOUNT, AND OWNER AMOUNT.
THE DATA FOR GENERATING THIS FORM IS INPUT ON ISIS FORM F1498 OR F3264.

LEVEL 1

UPDATE
TRANSACTION BATCH (KQ)
KEYED BY
LINE NUMBER (KQ0627)

IDENTITY RELATIONSHIP
IS IDENTIFIED WITH ONE S/R PAIR (KQKX)
KEYED BY
TRANSFER SERIAL NUMBER (KX1012)

WHICH
APPLIES TO TRANSFER SERIES (KXNX)

WHICH EITHER
DEFINES TO POINT AS COUNTRY FACILITY (NXRFT)

DEFINES TO POINT AS MATL BALANCE AREA (NXRBT)

DEFINES FROM POINT AS COUNTRY FACILITY (NXRFF)

DEFINES FROM POINT AS MATL BALANCE AREA (NXRBF)

OTHER DATA
DATE SHIPPED (KX3205)

DATE RECEIVED (KX1402)

IDENTIFICATION (KQ8987)

NUMBER OF ITEMS (KQ4642)

GROSS WEIGHT (KQ8217)

NET WEIGHT (KQ4092)

TYPE OF INVENTORY CHANGE (KQ9141)

LEVEL 2

UPDATE
TRANS CONSTITUENT (GL)

```
IDENTITY RELATIONSHIP 1
    IS A PART OF TRANSACTION BATCH                                  (GLKQ  )

IDENTITY RELATIONSHIP 2
    FALLS INTO NRC RANGE                                            (GLRV  )
 KEYED BY
    STANDARD MATERIAL TYPE CODE                                     (RV2908)

DATA RELATIONSHIP 2
IF TRANSACTION INVOLVES SHIPPER MEASURED VALUES, ESTABLISH RELATIONSHIP
    MAY HAVE A SHIPPER MEASURED VALUE                               (GLSZS )
 KEYED BY
    MEASURED ELEMENT WEIGHT                                         (SZ4504)
 AND
    MEASURED ISOTOPIC WEIGHT                                        (SZ3294)
 AND
    ERROR (ISOTOPIC)                                                (SZ2237)
 AND
    ERROR (ELEMENT)                                                 (SZ3425)
 AND WHICH
    HAS AN ASSOCIATED MEASUREMENT LIMIT                             (SZPL  )
 WHICH
    APPLIES TO A KEY MEASUREMENT POINT                              (PLPB  )
 KEYED BY
    KEY MEASUREMENT POINT ID                                        (PB4130)

AND WHICH
    MAY BE THE VALUE OF AN ITEM                                     (SZCF  )

KEYED BY
    ITEM NUMBER/SERIAL                                              (CF0726)

DATA RELATIONSHIP 3
IF TRANSACTION INVOLVES RECEIVER MEASURED VALUES, ESTABLISH RELATIONSHIP
    MAY HAVE A RECEIVER MEASURED VALUE                              (GLSZR )
 KEYED BY
    MEASURED ELEMENT WEIGHT                                         (SZ4504)
 AND
    MEASURED ISOTOPIC WEIGHT                                        (SZ3294)
 AND
    ERROR (ISOTOPIC)                                                (SZ2237)
 AND
    ERROR (ELEMENT)                                                 (SZ3425)
 AND WHICH
    HAS AN ASSOCIATED MEASUREMENT LIMIT                             (SZPL  )
 WHICH
    APPLIES TO A KEY MEASUREMENT POINT                              (PLPB  )
 KEYED BY
    KEY MEASUREMENT POINT ID                                        (PB4130)

AND WHICH
    MAY BE THE VALUE OF AN ITEM                                     (SZCF  )

KEYED BY
    ITEM NUMBER/SERIAL                                              (CF0726)

OTHER DATA(AS APPROPRIATE)
    TYPE OF QUANTITY                                                (GL1346)
```

MEASUREMENT BASIS (GL8327)

COMPOSITION CODE (GL1896)

PRODUCT CODE (GL1577)

OWNER CODE (GL4570)

DATE OF MANUFACTURE (CF3784)

ITEM DESTROYED FLAG (CF1424)

FREQUENCY OF REQUIRED LEAK CHECK (CF4525)

AND, IF TRANSACTION INVOLVES NON-MEASURED VALUES
FOR THE SUBCONSTRUCT
NONMEASUREMENT (FT)
THE DATA ELEMENTS
NONMEASURED ELEMENT WEIGHT (FT4459)

NONMEASURED ISOTOPE WEIGHT (FT3535)

LEVEL 3

UPDATE THE MOST RECENT
INVENTORY PERIOD (QP)

AS APPROPRIATE VIA
-AND DEBITS AN INVENTORY PERIOD (GLQPD)

OR
-AND CREDITS AN INVENTORY PERIOD (GLQPC)

KEYED BY
DATE (QP8085)

IDENTITY RELATIONSHIP
IS A REPORTABLE INVENTORY (QPZV)

WHICH
IS DEFINED BY AN NRC RANGE (ZVRV)

KEYED BY
STANDARD MATERIAL TYPE CODE (RV2908)

AND
IS DEFINED BY AN MBA POSS LIMIT (ZVXC)

KEYED BY
MAXIMUM ELEMENT WEIGHT (XC2776)

MAXIMUM ISOTOPE WEIGHT (XC1083)

MAXIMUM ENRICHMENT (XC4163)

OTHER DATA
BOOK BALANCE - ELEMENT WEIGHT (QP4790)

BOOK BALANCE - ISOTOPE WEIGHT (QP4284)

```
LEVEL 3
-------
UPDATE THE MOST RECENT
    ORIGIN SEQ AMOUNT                                          (JC     )

AS APPROPRIATE VIA
    -AND MAY DEBIT AN ORIG SEQ AMOUNT                          (GLJCD  )

OR
    -AND MAY CREDIT AN ORIG SEQ AMOUNT                         (GLJCC  )

IDENTITY RELATIONSHIP
    IS THE AMOUNT OF AN ORIGIN SEQUENCE                        (JCTV   )

KEYED BY
    ORIGIN SEQUENCE ID                                         (TV0423)

IDENTITY RELATIONSHIP
    APPLIES TO AN INVENTORY PERIOD                             (JCQP   )

KEYED BY
    DATE                                                       (QP8085)

LEVEL 3
-------
UPDATE THE MOST RECENT
    OWNER AMOUNT                                               (DS     )

IDENTITY RELATIONSHIP
    IS FOR AN OWNER CODE                                       (DSLC   )

KEYED BY
    OWNER CODE                                                 (LC0693)

IDENTITY RELATIONSHIP
    IS DEFINED WITHIN AN INVENTORY PERIOD                      (DSQP   )

KEYED BY
    DATE                                                       (QP8085)
```

TITLE

VALUE UPDATE FORM

PURPOSE

THIS FORM IS A SOFTWARE INTERNAL FORM GENERATED FROM DATA INPUT ON ON ISIS FORM F1498 OR F3264 AS REQUIRED. THE FORM IS USED TO MAINTAIN DATA IN THE VALUE CONSTRUCT.

LEVEL 1

UPDATE
VALUE (SZ)
KEYED BY
MEASURED ELEMENT WEIGHT (SZ4504)
AND
MEASURED ISOTOPIC WEIGHT (SZ3294)
AND
ERROR (ISOTOPIC) (SZ2237)
AND
ERROR (ELEMENT) (SZ3425)

IDENTITY RELATIONSHIP
HAS AN ASSOCIATED MEASUREMENT LIMIT (SZPL)
WHICH
APPLIES TO A KEY MEASUREMENT POINT (PLPB)
KEYED BY
KEY MEASUREMENT POINT ID (PB4130)

DATA RELATIONSHIP (APPLIES ONLY FOR INVENTORY REPORTING)
MAY BE THE VALUE OF AN ITEM (SZCF)
KEYED BY
ITEM NUMBER/SERIAL (CF0726)

TITLE

SNM OWNER IDENTIFICATION

PURPOSE

THIS FORM INPUTS INFORMATION, SUCH AS NAME AND ADDRESS, ABOUT LEGAL OWNERS OF SPECIAL NUCLEAR MATERIAL.

FREQUENCY: ONCE, THEN AS CHANGES OCCUR.

LEVEL 1

UPDATE
OWNER (VD)

KEYED BY
OWNER NAME (VD2728)

OTHER IDENTITY DATA
OWNER RIS (IF ANY) (VD3718)

OTHER DATA
OWNER ADDRESS (VD6897)

OWNER CITY (VD3788)

TITLE

OCCURRENCE OF A LEAK CHECK

PURPOSE

WHEN A LEAK CHECK IS PERFORMED, THE DATE AND RESULTS ARE STORED FOR THE ITEMS CHECKED.

FREQUENCY: EVERY TIME A LEAK CHECK IS PERFORMED.

LEVEL 1

REFERENCE
ITEM NUMBER/SERIAL (CF0726)

UPDATE
LEAK CHECK (DF)

KEYED BY
DATE OF CHECK (DF0874)

IDENTITY RELATIONSHIP
IS PERFORMED ON AN ITEM (DFCF)

OTHER DATA
STATUS (DF0378)

ACTION TAKEN (DF0291)

TITLE

LICENSEE UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE LICENSEE CONSTRUCT. IT WILL GENERALLY BE COMPLETED BY THE OFFICES OF NMSS OR NRR OR STATE PROGRAMS WHEN REVIEWING AND ISSUING LICENSES.

FREQUENCY: ON REQUEST

LEVEL 1

UPDATE

LICENSEE (FV)

KEYED BY
LICENSEE ID (FV1808)

OTHER DATA
CORPORATE NAME OF LICENSEE (FV0396)

CORPORATE ADDRESS (FV2706)

TITLE

LICENSE UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE LICENSE CONSTRUCT. IT WILL GENERALLY BE COMPLETED BY THE OFFICES OF NMSS OR NRR OR STATE PROGRAMS WHEN REVIEWING AND ISSUING LICENSES. THIS FORM MAY BE USED TO IDENTIFY OR CHANGE THE LICENSEE, SITE(S), PHASE OR CATEGORY/TYPE FOR A PARTICULAR LICENSE.

FREQUENCY: ON REQUEST

LEVEL 1

UPDATE

LICENSE (NH)

KEYED BY
LICENSE NUMBER (NH2655)

OR
DOCKET NUMBER (NH2112)

IDENTITY RELATIONSHIP
APPLIES TO LICENSEE (NHFV)

KEYED BY
LICENSEE ID (FV1808)

IDENTITY RELATIONSHIP
APPLIES TO PHASE (NHKV)

KEYED BY
PHASE IDENTITY (KV1819)

AND
FURTHER DEFINES LICENSE TYPE (KVVB)

KEYED BY
LICENSE TYPE ID (VB4350)

OTHER DATA
LICENSING AUTHORITY INDICATOR (NH0473)

LICENSEE NAME CODE (NH1562)

PRIORITY/CATEGORY (NH0253)

SAFEGUARDS GROUP NUMBER (NH3839)

AMENDMENT REFERENCE (NH3366)

AMENDMENT DATE (NH7700)

LEVEL 2

UPDATE

CROSS-REFERENCE RELATIONSHIP
CROSS REF SITE (NHMX)

KEYED BY
FACILITY NAME (MX3850)

TITLE

LICENSE TEXT UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE LICENSE TEXT CONSTRUCT. IT WILL GENERALLY BE COMPLETED BY THE OFFICES OF NMSS OR NRR OR STATE PROGRAMS WHEN REVIEWING AND ISSUING LICENSES.

FREQUENCY: ON REQUEST

LEVEL 1

UPDATE

LICENSE	(NH)
KEYED BY	
LICENSE NUMBER	(NH2655)
OR	
DOCKET NUMBER	(NH2112)

LEVEL 2

UPDATE

LICENSE TEXT	(ZT)
KEYED BY	
LICENSE TEXT SUBSET IDENTIFIER	(ZT6798)
IDENTITY RELATIONSHIP	
IS OWNED BY LICENSE	(ZTNH)
OTHER DATA	
LICENSE TEXT STATUS	(ZT8613)
LICENSE TEXT SORT KEY	(ZT2079)
MICROFICHE NUMBER	(ZT3729)
SUBMITTAL DATE	(ZT4928)
APPROVAL DATE	(ZT5676)
EFFECTIVE DATE	(ZT6820)

TERMINATION DATE (ZT7392)

REJECTED DATE (ZT4877)

LEVEL 3

REFERENCE

LICENSE FORMULA LIMIT (FB)

LICENSE POSS LIMIT (ZD)

MBA POSSESSION LIMIT (XC)

MBA FORMULA LIMIT (CS)

IDENTITY RELATIONSHIP
IS DEFINED FOR AN MBA (CSRB)

KEYED BY
RIS SUFFIX (RB3520)

IDENTITY RELATIONSHIP
IS INCLUDED IN AN ACCOUNT ID (RBTM)

KEYED BY
REPORTING IDENTIFICATION SYMBOL (TM6248)

TITLE

LICENSE TYPE AND PHASE UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE LICENSE TYPE AND PHASE CONSTRUCTS AUTHORIZED BY REGULATIONS.

FREQUENCY: ON REQUEST

LEVEL 1

UPDATE

LICENSE TYPE (VB)

KEYED BY
LICENSE TYPE ID (VB4350)

OTHER DATA
TITLE OF LICENSE TYPE (VB0374)

LEVEL 2

UPDATE

PHASE (KV)

KEYED BY
PHASE IDENTITY (KV1819)

OTHER DATA
TITLE OF PHASE (KV3597)

TITLE

LICENSE POSSESSION LIMIT UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE LICENSE POSSESSION LIMIT. IT WILL BE COMPLETED BY ONRR AND ONMSS.

FREQUENCY: ON REQUEST

LEVEL 1

REFERENCE

LICENSE	(NH)
KEYED BY	
LICENSE NUMBER	(NH2655)
OR	
DOCKET NUMBER	(NH2112)

LEVEL 2

UPDATE

LICENSE TEXT	(ZT)
KEYED BY	
LICENSE TEXT SUBSET IDENTIFIER	(ZT6798)
IDENTITY RELATIONSHIP	
IS OWNED BY LICENSE	(ZTNH)

LEVEL 3

UPDATE

LICENSE FORMULA LIMIT	(FB)
KEYED BY	
LIMIT SERIAL NUMBER	(FB2502)
IDENTITY RELATIONSHIP	
IS DEFINED IN A LICENSE TEXT	(FBZT)

OTHER DATA
    MAXIMUM EFFECTIVE KILOGRAMS (FB4965)

LEVEL 4

UPDATE

    LICENSE POSS LIMIT (ZD)

IDENTITY RELATIONSHIP
    APPLIES TO LICENSE FORMULA LIMIT (ZDFB)

AND
    IS DEFINED IN TERMS OF NRC BALANCE MATER (ZDZJ)

KEYED BY
    ELEMENT NAME (ZJ1115)

AND
    ISOTOPE NUMBER (ZJ0356)

OTHER DATA
    MATERIAL ENRICHMENT (ZD0495)

    MAXIMUM ELEMENT WEIGHT (ZD0466)

    MAXIMUM ISOTOPIC WEIGHT (ZD0576)

TITLE

MBA FORMULA LIMIT UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE MBA FORMULA LIMIT AND MBA POSSESSION LIMIT CONSTRUCTS. IT WILL BE COMPLETED BY ONRR AND ONMSS.

FREQUENCY: ON REQUEST

LEVEL 1

REFERENCE

LICENSE (NH)

KEYED BY
LICENSE NUMBER (NH2655)

OR
DOCKET NUMBER (NH2112)

LEVEL 2

UPDATE

CROSS REFERENCE RELATIONSHIP
CROSS REF SITE (NHMX)

KEYED BY
FACILITY NAME (MX3850)

LEVEL 3

UPDATE

MATERIAL BAL AREA (RB)

IDENTITY RELATIONSHIP
IS IN A SITE (RBMX)

KEYED BY
RIS SUFFIX (RB3520)

IDENTITY RELATIONSHIP

IS INCLUDED IN AN ACCOUNT ID (RBTM)

KEYED BY
REPORTING IDENTIFICATION SYMBOL (TM6248)

LEVEL 4

UPDATE

MBA FORMULA LIMIT (CS)

IDENTITY RELATIONSHIP
IS DEFINED WITHIN LICENSE FORMULA LIMIT (CSFB)

IS DEFINED IN A LICENSE TEXT (FBZT)

KEYED BY
LICENSE TEXT SUBSET IDENTIFIER (ZT6798)

IDENTITY RELATIONSHIP
IS DEFINED FOR AN MBA (CSRB)

KEYED BY
RIS SUFFIX (RB3520)

OTHER DATA
MAXIMUM EFFECTIVE KILOGRAMS (CS[illegible]70)

LEVEL 5

UPDATE

MBA POSSESSION LIMIT (XC)

IDENTITY RELATIONSHIP
APPLIES TO LICENSE POSSESSION LIMIT (XCZD)

IS DEFINED IN TERMS OF NRC BALANCE MATER (ZDZJ)

KEYED BY
ELEMENT NAME (ZJ1115)

AND
ISOTOPE NUMBER (ZJ0356)

DATA RELATIONSHIP
APPLIES TO MBA FORMULA LIMIT (XCCS)

OTHER DATA
MAXIMUM ELEMENT WEIGHT (XC2776)

MAXIMUM ISOTOPE WEIGHT (XC1083)

MAXIMUM ENRICHMENT (XC4163)

TITLE

SITE DESCRIPTION ENTRY

PURPOSE

THIS FORM ALLOWS SITE INFORMATION TO BE ENTERED INTO THE ISIS DATA BASE. IT PROVIDES ALSO FOR MBA(MATERIAL BALANCE AREA) DEFINITION.

LEVEL 1

UPDATE	
SITE	(MX)
KEYED BY	
FACILITY NAME	(MX3850)
IDENTITY RELATIONSHIP	
IS GEOGRAPHICALLY LOCATED IN REGION	(MXSMG)
KEYED BY	
REGION NUMBER	(SM2838)
IDENTITY RELATIONSHIP	
HAS S/G RESPONSIBILITY TO REGION	(MXSMS)
KEYED BY	
REGION NUMBER	(SM2838)
DATA RELATIONSHIP	
IS IN AGREEMENT STATE	(MXMS)
KEYED BY	
NAME OF STATE	(MS4389)
OTHER DATA	
CITY	(MX2304)
STATE	(MX2798)
ZIP CODE AREA IN WHICH SITE IS LOCATED	(MX1027)
LATITUDE/LONGITUDE	(MX1885)
FACILITY ADDRESS	(MX8349)
CORPORATE OWNERSHIP	(MX9042)
CORPORATE ADDRESS	(MX7139)
FACILITY TYPE	(MX3168)

SAFEGUARDS GROUP (MX1276)

MAT ACCOUNTING CONTACT NAME (MX9515)

PLANT PHONE NO-MAT ACCOUNTING CONTACT (MX6325)

HOME PHONE NO-MAT ACCOUNTING CONTACT (MX9240)

PHYS SECURITY CONTACT NAME (MX1914)

PLANT PHONE NO-PHYS SECURITY CONTACT (MX3487)

HOME PHONE NO-PHYS SECURITY CONTACT (MX3652)

S/G CONTACT NAME (MX2717)

PLANT PHONE NO-S/G CONTACT (MX8283)

HOME PHONE NO-S/G CONTACT (MX2519)

OVERALL CONTACT NAME (MX4246)

PLANT PHONE NO,OVERALL MBA CONTACT (MX3872)

HOME PHONE NO,OVERALL MBA CONTACT (MX4070)

OTHER CONTACT (MX9053)

PLANT PHONE NO-OTHER CONTACT (MX6743)

HOME PHONE NO-OTHER CONTACT (MX9185)

CENTRAL GUARD STATION PHONE NO (MX1474)

ICC IDENTIFICATION NUMBER (MX2765)

MOST RECENT GUARD HIRE DATE (MX0742)

LEVEL 1

UPDATE
ACCOUNT ID (TM)

KEYED BY
REPORTING IDENTIFICATION SYMBOL (TM6248)

DATA RELATIONSHIP
MAY HAVE AN OWNER (TMVD)

KEYED BY
OWNER NAME (VD2728)

OTHER DATA
RIS TYPE (TM5731)

IAEA SUFFIX (1 CHARACTER) (TM6842)

IAEA MBA TYPE (TM1243)

RIS STATUS CODE (TM1864)

RIS ADDRESS (IF ANY) (TM1566)

LEVEL 2

UPDATE
MATERIAL BAL AREA (RB)

KEYED BY
RIS SUFFIX (RB3520)

IDENTITY RELATIONSHIP
IS IN A SITE (RBMX)

KEYED BY
FACILITY NAME (MX3850)

IDENTITY RELATIONSHIP
IS INCLUDED IN AN ACCOUNT ID (RBTM)

KEYED BY
REPORTING IDENTIFICATION SYMBOL (TM6248)

OTHER DATA
RESPONSIBLE POSITION TITLE (RB9801)

MBA RESPONSIBLE INDIVIDUAL NAME (RB8459)

INDIVIDUALS ADDRESS (RB4851)

INDIVIDUALS PHONE NUMBER (RB9108)

LEVEL 3

UPDATE
SITE DESCRIPTION (MV)

KEYED BY
AREA IDENTIFICATION (MV9691)

IDENTITY RELATIONSHIP
DESCRIBES SITE (MVMX)

IDENTITY RELATIONSHIP
DESCRIBES MATL BALANCE AREA (MVRB)

NUMBER OF MBAS (MV1182)

NUMBER OF ICAS (MV4536)

TITLE

MATERIAL CONTROL INFORMATION ENTRY

PURPOSE

THIS FORM ALLOWS MATERIAL CONTROL INFORMATION PERTAINING TO A PARTICULAR SITE TO BE ENTERED INTO THE ISIS DATA BASE. THIS INCLUDES KMP IDENTIFICATION, AND MEASUREMENT LIMITS.

LEVEL 1

IDENTIFY
SITE DESCRIPTION (MV)

KEYED BY
AREA IDENTIFICATION (MV9691)

IDENTITY RELATIONSHIP
DESCRIBES SITE (MVMX)

KEYED BY
FACILITY NAME (MX3850)

LEVEL 2

UPDATE
KEY MEAS POINT (PB)

KEYED BY
KEY MEASUREMENT POINT ID (PB4130)

IDENTITY RELATIONSHIP
APPLIES TO SITE DESCRIPTION (PBMV)

IDENTITY RELATIONSHIP
APPLIES TO MATERIAL BAL AREA (PBRB)

KEYED BY
RIS SUFFIX (RB3520

AND IDENTITY RELATIONSHIP
IS INCLUDED IN AN ACCOUNT ID (RBTM)

KEYED BY
REPORTING IDENTIFICATION SYMBOL (TM6248)

OTHER DATA
MEASUREMENT DESCRIPTION (PB1523)

LEVEL 3

UPDATE
    MEASUREMENT LIMIT (PL)

KEYED BY
    ELEMENT LIMIT OF ERROR (PL0675)

    ISOTOPE LIMIT OF ERROR (PL1204)

IDENTITY RELATIONSHIP
    APPLIES TO A KEY MEASUREMENT POINT (PLPB)

KEYED BY
    KEY MEASUREMENT POINT ID (PB4130)

IDENTITY RELATIONSHIP
    IS IN TERMS OF AN NRC BALANCE MATERIAL (PLZJ)

KEYED BY
    ELEMENT NAME (ZJ1115)

    ISOTOPE NUMBER (ZJ0356)

TITLE

AGREEMENT STATE UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE AGREEMENT STATE CONSTRUCT.

FREQUENCY: ON REQUEST

LEVEL 1

UPDATE

AGREEMENT STATE	(MS)
KEYED BY	
NAME OF STATE	(MS4389)
IDENTITY RELATION	
IS LOCATED IN A REGION	(MSSM)
KEYED BY	
REGION NUMBER	(SM2838)
OTHER DATA	
DATE OF AGREEMENT	(MS5918)
DATE OF LAST AMENDMENT	(MS9504)
AGREEMENT REFERENCE	(MS8261)
COMMENTS	(MS8019)

TITLE

COUNTRY GENERIC DATA

PURPOSE

THIS FORM INPUTS PERTINENT DATA ON ALL THE COUNTRIES OF THE WORLD, SUCH AS NAME OF COUNTRY, RIS, AGREEMENT STATUS.

FREQUENCY: ON REQUEST

LEVEL 1

UPDATE

COUNTRY	(MC)

KEYED BY

COUNTRY ID CODE	(MC9724)

OTHER DATA

COUNTRY RIS	(MC1958)
COUNTRY IAEA CODE	(MC2545)
NAME OF COUNTRY	(MC0891)
NPT STATUS	(MC4136)
DOS CONTACT NAME	(MC5368)
DOS OFFICE SYMBOL (ADDRESS)	(MC8316)
DOS CONTACT PHONE NUMBER	(MC8514)
DOS CONTACT DATA ENTRY DATE	(MC9702)
DATE OF NPT SIGNING	(MC6875)

TITLE

ORIGIN SEQUENCE UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR CREATING AN ORIGIN SEQUENCE CONSTRUCT.

FREQUENCY: ON REQUEST

LEVEL 1

UPDATE

ORIGIN SEQUENCE (TV)

KEYED BY
ALL OF LEVEL 2
OTHER DATA
ORIGIN SEQUENCE ID (TV0423)

LEVEL 2

UPDATE

CROSS REF COUNTRIES (TVMC)

KEYED BY
COUNTRY RIS (MC1958)

TITLE

FOREIGN FACILITY UPDATE FORM

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION FOR MAINTAINING THE COUNTRY FACILITY CONSTRUCT.

FREQUENCY: ON REQUEST

LEVEL 1

REFERENCE

COUNTRY	(MC)
KEYED BY	
COUNTRY ID CODE	(MC9724)

LEVEL 2

UPDATE

FOREIGN FACILITY	(RF)
KEYED BY	
FACILITY RIS	(RF5819)
IDENTITY RELATIONSHIP	
BELONGS TO COUNTRY	(RFMC)
KEYED BY	
COUNTRY ID CODE	(MC9724)
OTHER DATA	
FACILITY ID	(RF2920)
FACILITY NAME	(RF5082)
FACILITY LOCATION	(RF4565)
FACILITY PHONE NUMBER	(RF1005)
FACILITY TYPE	(RF3256)
PHYSICAL/GENERIC	(RF6985)
OWNER NAME	(RF3678)

OWNER ADDRESS (RF3404)

FACILITY IAEA CODE (RF3074)

REVISION OF
DETAILED DEFINITION OF REQUIREMENTS (DDR)

VOLUME 2

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Boeing Computer Services Company
A Division of The Boeing Company
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DOCUMENT CONTROL SYSTEM SAFEGUARDS INDEX (DCSINX)

1.0 ABSTRACT

The purpose of this service module is to provide a high level index in support of the automated microfiche storage and retrieval system recently operated by the Office of Administration, Technical Information Division. The Document Control System (DCS) contains in microfiche form the complete text for all NRC documents and provides subject, title and author indexes to these documents. The ISIS DCSINX service module supplements these indexes by identifying specific document sections and/or pages related to the safeguards function. Benefits arising from DCSINX include a decrease in the time required to identify and retrieve safeguards-related material within documents and a corresponding decrease to DCS computer load by reducing the amount of browsing performed in conjunction with safeguards activities. The DCSINX will be maintained apart from the DCS but will be coordinated with it through the use of the source accession number to identify a document.

2.0 PURPOSE OF DCSINX

2.1 FUNCTIONS AND CAPABILITIES

The purpose of the DCSINX module is to provide increased access to safeguards-related NRC documents. It will be used in conjunction with the Document Control System (DCS) to identify specific sections, subsections or document pages relevant to safeguards activities. By using DCSINX, NRC staff will reduce the browsing time and effort required to identify and access safeguards-specific data within the DCS.

2.2 CURRENT OR PROJECTED INFORMATION NEEDS

The Document Control System Index Module supplements the Technical Information Division of the Office of Administration by identifying the location of pertinent safeguards-related data within documents. The DCS will reference documents only in a general way and will not identify the location in non-safeguards oriented documents of specific subsections related to the safeguards function. Thus the NRC staff member needing specific information will need to browse through the document to identify specific sections or subsections containing safeguards data. DCSINX will assist the staff member by identifying where within the document safeguards-related information is to be found, thereby reducing his need to browse through the document.

The document needs involved in developing and enforcing a good safeguards system include the ability to locate safeguards relevant information in otherwise unrelated documents, and the availability of abstracts of pertinent documents such as licenses, reports, and facility description data. These needs will be met via the DCSINX.

One problem which has not been resolved for DCS is the handling of classified documents. It was initially projected that the first DCS would handle only non-classified documents.

It is felt that ISIS is a data-oriented system in comparison to DCS which is viewed as a document-oriented system. One interface between the two systems will be the DCSINX Module. Other modules will interface with the DCS, through the accession number, in support of specific functions such as the inspection report text, safeguards status report book (white book), nuclear facility description data, etc.

3.0 RELATION OF DCSINX TO EXISTING NRC SYSTEMS

No NRC data processing system currently exists which provides the functions envisioned by the DCSINX Module. However, DOE's Technical Information Center does currently support NRC with document-oriented products closely identified with the Document Control System Activities. These include:

- Bibliographic Information Base - Catalog, Abstract, Index of selected NRC docket-related documents and reports;
- Power Reactor Docket Information (PRDI);
- Index for Nuclear Regulatory Commission Issuances;
- Fiche Index of Nuclear Dockets (FIND) and Public Document Microfiche Service;
- NRC Bibliographic Data Service to Energy Research Abstracts and NTIS;
- Technical Information Searches for NRC (Manual and Recon).

Of these items, 2 through 4 will be assumed by the Document Control Division (and assumedly the DCS) in FY 79. The DCS produces a Daily and Monthly Accession List of all new documents, and is capable of retrospective searching. The DCS will not subdivide documents to the level envisioned as required by safeguards personnel. The subdivision of documents is the role of the DCSINX Module for safeguards-related data.

The NRC staff member would identify the documents to be examined by their DCS assigned Accession Number. This unique document identifer can be obtained from several sources, one being the DCS via a query by subject, title or author, another from the Daily Accession List, etc. Once obtained, the accession number is used to query ISIS to determine if it contains safeguards-related data and if so, where within the document. DCSINX outputs the page numbers and microfiche references for the safeguards information within the document(s).

Note: The maintenance of the DCSINX is <u>not the responsibility</u> of the DCS.

4.0 NRC OFFICES INVOLVED IN DCSINX

4.1 REPORT USERS

It is assumed that the DCSINX Module will be used by all NRC staff interested in safeguards. Since the DCSINX is used only to identify the existence of safeguards information along with an abstract of the actual document, consideration need only be given to limiting access to individuals having the appropriate security clearances if the abstract itself requires security consideration. It will be the responsibility of the DCS to control access to the documents.

4.2 INPUT RESPONSIBILITIES

The DCSINX is assumed to operate in three modes: query, new documents, and update. The functions of each are:

1. Query - implies that DCSINX is only to respond to queries. Queries have restricted input, specifically the accession number, the document publication ID, or the document title for a document of interest. Output in this mode is the list of microfiche reference numbers for safeguards information and text describing the information. This descriptive text could be in concise narrative form, or could consist of a key word, depending on the amount of rigor NRC decided to impose;

2. New Document - this mode is used to add new document entries to the DCSINX and is performed once daily. It derives the input data from the Daily Accession List. At this point the new entries have limited to no data as to safeguards contents. It is the function of NRC staff members using documents to update the DCSINX records, and thus to make their analysis available to other NRC staff;

3. Update - the Update mode is used to record references to safeguards information within a document. Inputs include document page and text describing the specific subject. No entries are deleted and the entries are automatically sequenced by page.

4.3 DATA QUALITY

The quality assurance function is not identifiable with current NRC personnel. However, a person performing liaison between DCS and ISIS would assure that new entries are added and to assure that references are accurate.

4.4 ACCESS CONTROL

Not applicable.

5.0 MODULE DATA BASE

Figure 5.1 shows the three (3) constructs which are accessed to produce the DCSINX reports. The DCSINX constructs store information principally obtained from the Document Control System DCS. The DCSINX constructs allow safeguards information within documents to be indexed and referenced.

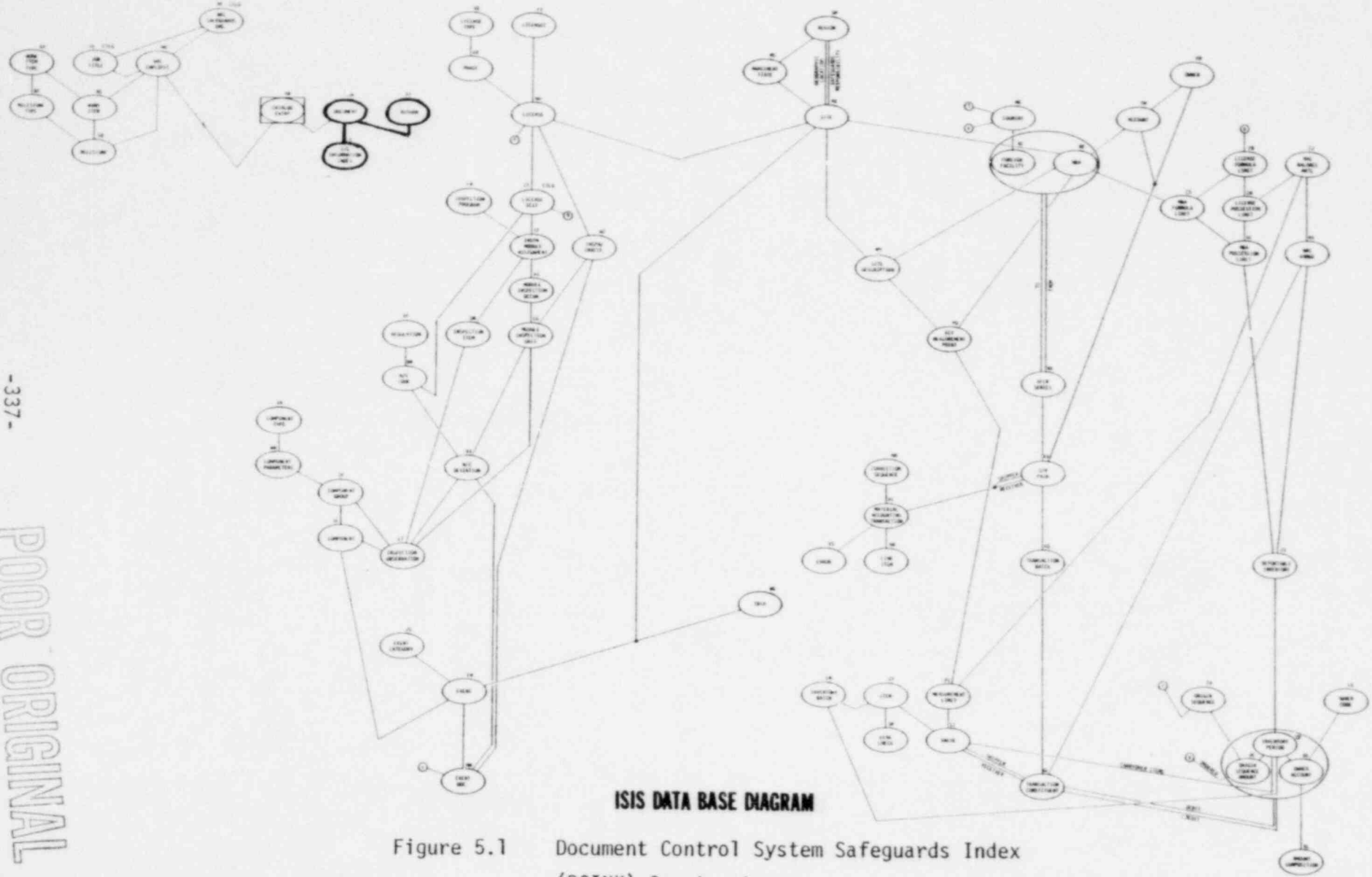


Figure 5.1 Document Control System Safeguards Index (DCINX) Constructs

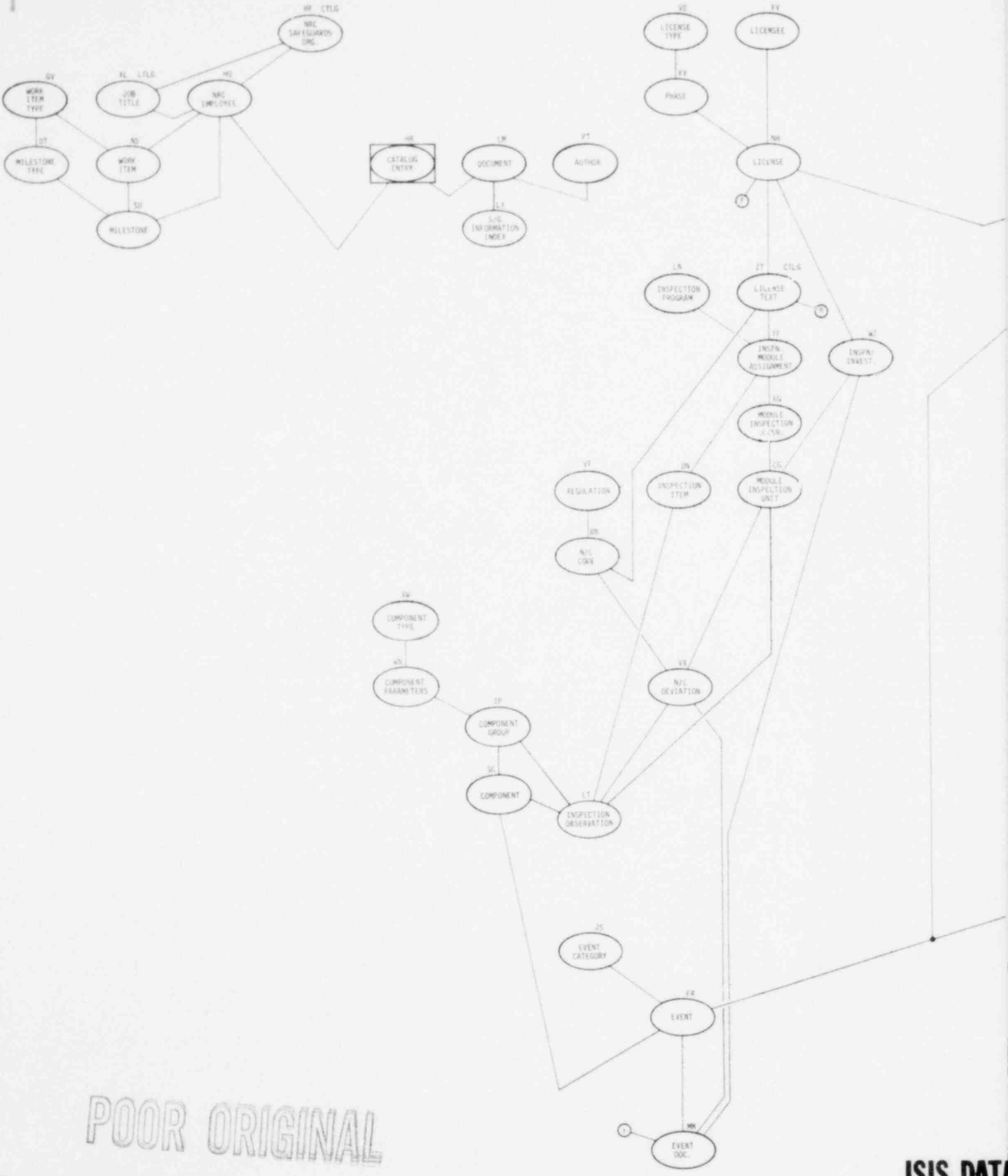
6.0 OUTPUT REPORTS AND INPUT FORMS

6.1 LIST OF OUTPUT REPORTS

Report Number	Report Title
R3785	Document Information Retrieval

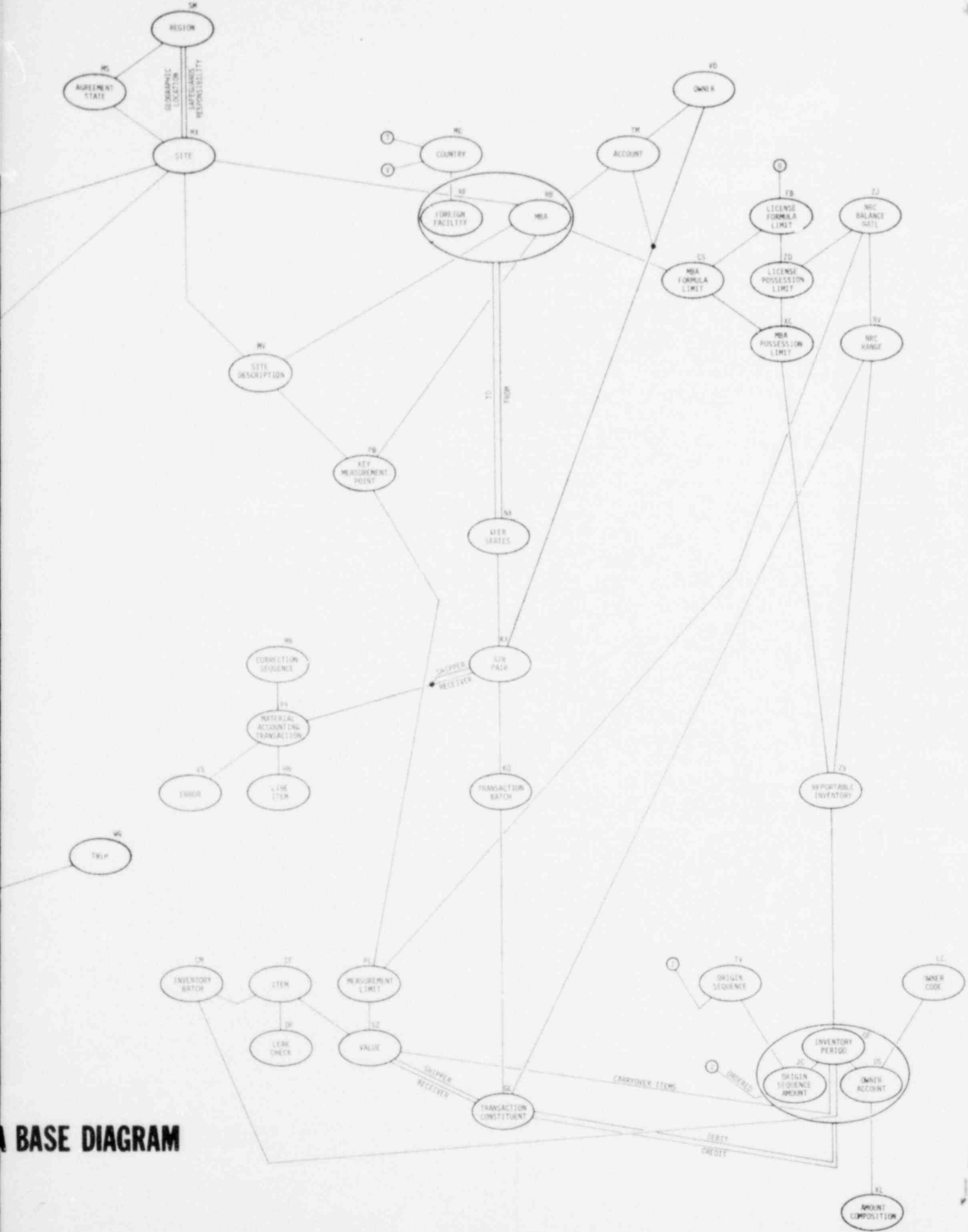
6.2 LIST OF INPUT FORMS

Form Number	Form Title
F4124	Document Form
F3845	S/G Information Index Form



POOR ORIGINAL

ISIS DATA



A BASE DIAGRAM

TITLE

DOCUMENT INFORMATION RETRIEVAL

PURPOSE

THE PURPOSE OF THIS REPORT IS TO SHOW WHERE WITHIN A SPECIFIED DOCUMENT SAFEGUARDS INFORMATION RESIDES, AS PREVIOUSLY REPORTED BY NRC PERSONNEL. NRC PERSONNEL REVIEWING A DOCUMENT FOR S/G INFORMATION SHOULD PROVIDE INPUT TO THE SYSTEM SO THAT A TOTAL REVIEW OF A DOCUMENT NEED NOT BE REPEATED BY EACH USER.

FREQUENCY: ON REQUEST (500/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 1 PAGE

PARAMETERS

TYPE OF DOCUMENT SELECTION	TYPE LENGTH	FIXED TEXT UNK	(P1)

POSSIBLE VALUES:
'ACCESSION NUMBER'
'DOCUMENT PUBLICATION ID'
'DOCUMENT TITLE'

DOCUMENT SELECTION VALUE	TYPE LENGTH	FIXED TEXT UNK	(P2)

POSSIBLE VALUES (CORRESPONDING TO P1):
ACCESSION NUMBER
DOCUMENT PUBLICATION ID
DOCUMENT TITLE

SELECTION

IF TYPE OF DOCUMENT SELECTION	TYPE LENGTH	FIXED TEXT UNK	(P1)
IS EQUAL TO 'ACCESSION NUMBER'			
THEN SELECT DOCUMENTS			(LMS)
WHERE			
DOCUMENT SELECTION VALUE	TYPE LENGTH	FIXED TEXT UNK	(P2)
IS EQUAL TO			

```
    ACCESSION NUMBER                                                (LM1254)

  ELSE IF
    TYPE OF DOCUMENT SELECTION              TYPE      FIXED TEXT    (P1    )
                                            LENGTH    UNK
    IS EQUAL TO 'DOCUMENT PUBLICATION ID'
  THEN SELECT
    DOCUMENTS                                                       (LMS   )

  WHERE

    DOCUMENT SELECTION VALUE                TYPE      FIXED TEXT    (P2    )
                                            LENGTH    UNK
    IS EQUAL TO
    DOCUMENT PUBLICATION ID                                         (LM9746)

  ELSE IF
    TYPE OF DOCUMENT SELECTION              TYPE      FIXED TEXT    (P1    )
                                            LENGTH    UNK
    IS EQUAL TO 'DOCUMENT TITLE'
  THEN SELECT
    DOCUMENTS                                                       (LMS   )

  WHERE

    DOCUMENT SELECTION VALUE                TYPE      FIXED TEXT    (P2    )
                                            LENGTH    UNK
    IS EQUAL TO
    DOCUMENT TITLE                                                  (LM7656)

  THEN IN ANY CASE, VIA

    CROSS REF TO AUTHOR                                             (LMPT  )

    AUTHORS NAME                                                    (PT4268)


  AND VIA

    HAS S/G INFO INDICES                                            (LMLX  )

    S/G INFO INDICES                                                (LXS   )


DISPLAY
-------

LEVEL 1

    DOCUMENT TITLE                                                  (LM7656)

    DOCUMENT PUBLICATION ID                                         (LM9746)

    ACCESSION NUMBER                                                (LM1254)

    DOCUMENT DATE                                                   (LM0121)

    DOCUMENT TYPE                                                   (LM3157)
```

DOCUMENT CODE (LM5951)

MICROFICHE NUMBER (LM4323)

MICROFICHE LOCATION (LM8591)

CONSTRUCT ENTRY DATE (LM2618)

ABSTRACT TEXT (LM7854)

ABSTRACT SUBMISSION DATE (LM1584)

SECURITY LEVEL OF DOCUMENT (LM4290)

SECURITY LEVEL OF ABSTRACT (LM3432)

NUMBER OF PAGES IN DOCUMENT (LM5181)

AUTHORS NAME (PT4268)

LEVEL 2

ENTRY DATE (LX4609)

WHO ENTERED (LX9636)

PAGE NUMBER (LX0308)

MICROFICHE NUMBER (LX3685)

MICROFICHE LOCATION (LX8294)

LEVEL 3

SUBJECT TEXT (LX1375)

TITLE

S/G INFORMATION INDEX FORM

PURPOSE

THIS FORM IS USED TO ADD TO THE S/G INFORMATION INDEX FOR A SPECIFIED S/G-RELATED DOCUMENT

FREQUENCY: FOR EACH REVIEWING OF A DOCUMENT IF NEW INFORMATION IS IDENTIFIED

LEVEL 1

UPDATE

S/G INFO INDEX	(LX)
KEYED BY	
MICROFICHE NUMBER	(LX3685)
IDENTITY RELATIONSHIP	
INDEXES DOCUMENT	(LXLM)
KEYED BY	
DOCUMENT PUBLICATION ID	(LM9746)

OTHER DATA

ENTRY DATE	(LX4609)
WHO ENTERED	(LX9636)
PAGE NUMBER	(LX0308)
MICROFICHE LOCATION	(LX8294)
SUBJECT TEXT	(LX1375)

SAFEGUARDS ITEM TRACKING SYSTEM (SITS)

1.0 ABSTRACT

SITS will provide to NRC managers and staff who become responsible for safeguards work items or action items a capability for tracking the status of the work/action items and a means to notify responsible persons that milestones associated with work/action items are imminent, due or overdue.

2.0 PURPOSE OF SITS

2.1 FUNCTIONS AND CAPABILITIES

SITS will serve the functions of safeguards-related work/action item tracking, notification of principals for overdue work items or action items. SITS will serve all NRC safeguards-involved offices, divisions, branches and personnel and will be invoked for all transactions between any two NRC safeguards "groups" which result in one party to the transaction requesting some specific task or action of the second party. Work items to be tracked by SITS include intergroup (and if desired intragroup) task assignments, milestone establishment, action item assignments for further communications, investigations, or research, etc. SITS will not necessarily be a major management system for control of task assignments within normal organizational hierarchical groups, but such capability will exist for use by those managers who desire it. SITS will be primarily directed to intergroup assignments and requests. The status of such work items need be monitored periodically until closure at which time they should be appropriately cataloged and made available in a historical file.

The capabilities of SITS are primarily to provide visibility to NRC managers of the volume, nature, duration and manpower requirements of the work items for which personnel in their groups are responsible. SITS will also serve a very important function as a work item "tickler" system, whereby notification will be sent to responsible work item personnel for pending milestones, notifications of the arrival of milestone dates will be made, and subsequent to the passing of a milestone date an increased frequency of notifications or inquiries will be implemented.

The form of SITS data available to NRC managers will be reports on the work items assigned to the various levels of the NRC organization. For example, the number of work items with pertinent data on responsible individuals, milestones, estimated and expended manpower requirements, etc., for a given office could be reported. Further breakdowns of the outstanding work items could be made, such as by division department, branch, section or individual.

In addition to grouping outstanding work items by responsible office or person, listing will be available grouped by type of action items or work item, by time period when due, by time period when assigned, by originating office (requestor), etc. SITS is to serve primarily as a management information system to allow evaluation, assessment and perusal capabilities to NRC managers with respect to safeguards work items in their group which originated outside the group.

2.2 CURRENT OR PROJECTED INFORMATION NEEDS

The scope of SITS is to encompass all of NRC although it is specifically directed to the offices and groups within offices that have safeguards activities and responsibilities. The current need for a work item tracking system is evident in NRC in that OIE has developed an Action Item Tracking System (AITS) as part of their management information system. The OMIPC Division of Regulatory Information Systems has designed and developed a Technical Assignment Control System (TACS) to provide ONRR (regulation) managers with an automated method for planning, scheduling, and controlling the status of the total work effort of ONRR. TACS is also being evaluated by ONMSS to determine applicability and desirability of that offices' using the system.

As safeguards activities become a larger component of NRC's overall group of activities, there are bound to be more and more groups within NRC which have safeguards related responsibilities. Accordingly, the intergroup work item transactions will increase not only in volume but also in complexity. The projected requirements of the SITS service module are thus primarily for increased reporting capacity rather than any significant new capabilities.

3.0 RELATION OF SITS TO EXISTING NRC SYSTEMS

The SITS module will perform functions that are similar to and somewhat overlap the functions performed by two existing NRC data processing systems:

- The Action Item Tracking System (AITS) which is part of the management information system of OIE;
- The Technical Assignment Control System (TACS) developed by OMIPC Regulatory Information Division for ONRR and potentially ONMSS.

SITS will monitor and track those safeguards related action items that are currently tracked by the AITS but will expand the coverage from just OIE to all NRC offices. Those planning, coordinating and scheduling activities that are safeguards related in ONRR (and possible ONMSS) that are currently TACS controlled will be included in SITS.

In both instances above, the determination of existing system overlap and the subsequent interface design will be a significant implementation task for the SITS service module of ISIS.

4.0 NRC OFFICES INVOLVED IN SITS

4.1 REPORT USERS

SITS will be designed so that all NRC safeguards related groups have access to the module's reports. Potential report recipients and users are any personnel who have the responsibility to fulfill a safeguards work item or action and the managers whose personnel have work/action item responsibility.

4.2 INPUT RESPONSIBILITIES

All NRC personnel who author safeguards work items will generate the input data for SITS.

4.3 DATA QUALITY

None.

4.4 ACCESS CONTROL

None.

5.0 MODULE DATA BASE

Figure 5.1 shows the seven (7) constructs which are accessed to produce the SITS reports. The SITS constructs store information about safeguards items to be tracked by the SITS module. Milestone information is maintained for the items to be tracked and individuals responsible for specific milestones are noted. As part of the information maintained by SITS, the NRC safeguards organizational structure is stored in SITS constructs and the corresponding position/job titles are referenced.

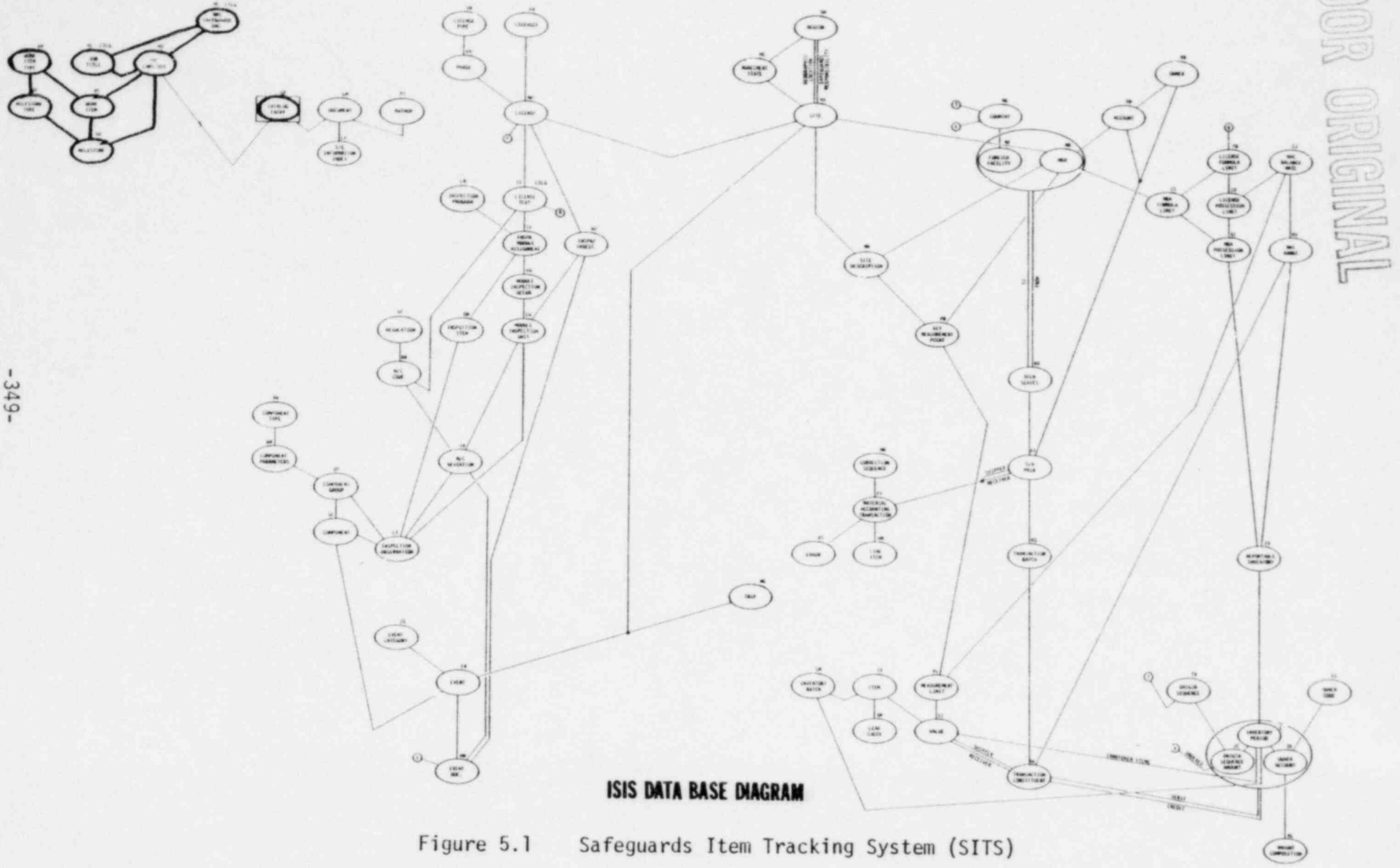


Figure 5.1 Safeguards Item Tracking System (SITS) Constructs

6.0 OUTPUT REPORTS AND INPUT FORMS

6.1 LIST OF OUTPUT REPORTS

Report Number	Report Title
R0107	Work/Action (W/A) Item Milestone Status (By) Responsible NRC Employee(s)
R3178	Work/Action (W/A) Item Milestone Status (By) NRC Organization
R3379	Work/Action (W/A) Item Status by W/A Type
R3480	Work/Action (W/A) Item Summary By NRC Office

6.2 LIST OF INPUT FORMS

Form Number	Form Title
F9613	Work-Item-Type and Milestone-Type Form
F3616	NRC Employee Form
F4944	Job Title Catalog Form
F1314	NRC Safeguards Organization Form
F1895	Work Item Form

TITLE

WORK/ACTION (W/A) ITEM MILESTONE STATUS (BY)
RESPONSIBLE NRC EMPLOYEE(S)

PURPOSE

THE PURPOSE OF THIS REPORT IS TO PRODUCE A REPORT WHICH SHOWS OUTSTANDING W/A ITEM MILESTONES BY RESPONSIBLE INDIVIDUAL. THIS MAY BE A DETAILED REPORT SHOWING ALL OUTSTANDING MILESTONES FOR A SPECIFIED EMPLOYEE. OR IT MAY BE A SUMMARY REPORT SHOWING FOR EACH GENERIC TYPE OF MILESTONE THE EMPLOYEES HAVING RESPONSIBILITY FOR MILESTONES OF THAT TYPE.

FREQUENCY: ON REQUEST (2500/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 1 PAGE

PARAMETERS

DATE USED IN CALCULATING "DAYS REMAINING"	TYPE LENGTH	DATE 6	(P1)
REPORT TYPE DESIRED VALUES="MILESTONE" OR "EMPLOYEE"	TYPE LENGTH	FIXED TEXT 10	(P2)
ID OF SPECIFIED EMPLOYEE IF P2="EMPLOYEE"	TYPE LENGTH	FIXED TEXT 10	(P3)
W/A ITEM TYPE ID OF INTEREST IF P2="EMPLOYEE"	SPARE LENGTH	F 30	(P4)
MILESTONE TYPE ID OF INTEREST IF P2="MILESTONE"	TYPE LENGTH	FIXED TEXT 30	(P5)

COMPUTATIONAL RESULTS
---292

DAYS REMAINING	TYPE LENGTH	DATE 6	(C1)

SELECTION

SELECT
MILESTONES (SDS)

```
WHERE
  ACTUAL COMPLETION DATE                                          (SD4015)
  IS CODED "NOT COMPLETE"
AND WHERE 1) IF

  REPORT TYPE DESIRED                  TYPE      FIXED TEXT     (P2     )
                                       LENGTH    10
   IS EQUAL TO "EMPLOYEE"


  MAY BE RESPONSIBILITY OF NRC EMPLOYEE                           (SDHQ   )

  EMPLOYEE ID                                                     (HQ1463)
  IS EQUAL TO

  ID OF SPECIFIED EMPLOYEE             TYPE      FIXED TEXT     (P3     )
                                       LENGTH    10
  AND WHERE VIA

  BELONGS TO A WORK ITEM                                          (SDNS   )

AND

  BELONGS TO WORK ITEM TYPE                                       (NSGV   )

  W/A ITEM TYPE ID                                                (GV1650)
  IS EQUAL TO

  W/A ITEM TYPE ID OF INTEREST         SPARE     F              (P4     )
                                       LENGTH    30

AND VIA

  BELONGS TO MILESTONE TYPE                                       (SDDT   )

  MILESTONE TYPE                                                  (DT     )

AND VIA

  MAY BE RESPONSIBILITY OF NRC EMPLOYEE                           (SDHQ   )

  NRC EMPLOYEE                                                    (HQ     )

AND VIA

  BELONGS TO A WORK ITEM                                          (SDNS   )

  WORK ITEM                                                       (NS     )

THEN VIA

  BELONGS TO WORK ITEM TYPE                                       (NSGV   )

  WORK ITEM TYPE                                                  (GV     )

ELSE WHERE 2) IF

  REPORT TYPE DESIRED                  TYPE      FIXED TEXT     (P2     )
                                       LENGTH    10
```

```
    IS EQUAL TO "MILESTONE"
  VIA

    BELONGS TO MILESTONE TYPE                                          (SDDT   )

    MILESTONE TYPE                                                     (DT     )
     IS EQUAL TO

    MILESTONE TYPE ID OF INTEREST          TYPE      FIXED TEXT        (P5     )
                                           LENGTH    30

  THEN VIA

    BELONGS TO MILESTONE TYPE                                          (SDDT   )

    MILESTONE TYPE                                                     (DT     )

  AND VIA

    MAY BE RESPONSIBILITY OF NRC EMPLOYEE                              (SDHQ   )

    NRC EMPLOYEE                                                       (HQ     )

DISPLAY
------662
IF

    REPORT TYPE DESIRED                    TYPE      FIXED TEXT        (P2     )
                                           LENGTH    10
     IS EQUAL TO "EMPLOYEE"

LEVEL 1

    EMPLOYEE ID                                                        (HQ1463)

    EMPLOYEE NRC MAIL STOP                                             (HQ1980)

LEVEL 2

    W/A ITEM TYPE ID                                                   (GV1650)

    W/A ITEM TYPE TITLE                                                (GV5236)

LEVEL 3

    W/A ITEM DESCRIPTION                                               (NS6391)

    ITEM SEQUENCE NUMBER                                               (NS6468)

    SENDING OFFICE CODE                                                (NS2310)

    RECEIVING OFFICE CODE                                              (NS1782)

    REQUESTED COMPLETION DATE                                          (NS9361)

    REQUESTOR                                                          (NS2376)
```

PRIORITY (CODE) (NS6281)

FACILITY (NS6919)

INITIAL ENTRY DATE (NS0902)

LEVEL 4

MILESTONE ID (SD1716)

MILESTONE TYPE TITLE (DT7502)

MILESTONE TYPE ID (DT3938)

ESTIMATED NUMBER OF MANHOURS REQUIRED (SD4895)

EXPECTED COMPLETION DATE (SD8745)

DATE USED IN CALCULATING "DAYS REMAIN'G" TYPE DATE (P1)
LENGTH 6

DAYS REMAINING TYPE DATE (C1)
LENGTH 6

ELSE IF

REPORT TYPE DESIRED TYPE FIXED TEXT (P2)
LENGTH 10
IS EQUAL TO "MILESTONE"

LEVEL 1

MILESTONE TYPE TITLE (DT7502)

MILESTONE TYPE ID (DT3938)

MILESTONE TYPE DESCRIPTION (DT5742)

TYPICAL NUMBER OF MANHOURS REQUIRED (DT0418)

TYPICAL # OF WORKING DAYS REQUIRED (DT7194)

LEVEL 2

EMPLOYEE ID (HQ1463)

EMPLOYEE NRC MAIL STOP (HQ1980)

TITLE

WORK/ACTION (W/A) ITEM MILESTONE STATUS (BY)
NRC ORGANIZATION

PURPOSE

THE PURPOSE OF THIS REPORT IS TO SHOW OUTSTADING W/A ITEM MILESTONES BY RESPONSIBLE NRC ORGANIZATION

FREQUENCY: ON REQUEST (600/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 10 PAGES

PARAMETERS

NRC ORGANIZATION SPECIFIED	TYPE LENGTH	FIXED TEXT 45	(P1)
"AS OF DATE"	TYPE LENGTH	DATE 6	(P2)

COMPUTATIONAL RESULTS

DAYS REMAINING "AS OF"	TYPE LENGTH	FIXED TEXT 3	(C1)

SELECTION

SELECT
MILESTONES (SDS)

WHERE
ACTUAL COMPLETION DATE
IS CODED NOT COMPLETE (SD4015)

AND WHERE VIA

MAY BE RESPONSIBILITY OF NRC EMPLOYEE (SDHQ)

AND

BELONGS TO A NRC S/G ORGANIZATION (HGHF)

ORGANIZATIONAL UNIT TITLE (HF2893)

IS EQUAL TO

NRC ORGANIZATION SPECIFIED — TYPE FIXED TEXT LENGTH 45 (P1)

AND VIA

MAY BE RESPONSIBILITY OF NRC EMPLOYEE (SDHQ)

EMPLOYEE NAME (HQ9592)
THEN VIA

CROSS REF TO JOB TITLE (HQXL)

JOB TITLE/LEVEL (XL3927)

AND VIA

BELONGS TO A WORK ITEM (SDNS)

WORK ITEM (NS)

DISPLAY

LEVEL 1

ORGANIZATIONAL UNIT TITLE (HF2693)

LEVEL 2

EMPLOYEE NAME (HQ9592)

JOB TITLE/LEVEL (XL3927)

LEVEL 3

W/A ITEM DESCRIPTION (NS6391)

ITEM SEQUENCE NUMBER (NS6468)

PRIORITY (CODE) (NS6281)

SENDING OFFICE CODE (NS2310)

RECEIVING OFFICE CODE (NS1782)

FACILITY (NS6919)

INITIAL ENTRY DATE (NS0902)

REQUESTED COMPLETION DATE (NS9361)

REQUESTOR (NS2376)

LEVEL 4

MILESTONE ID			(SD1716)
ESTIMATED NUMBER OF MANHOURS REQUIRED			(SD4695)
EXPECTED COMPLETION DATE			(SD8745)
DAYS REMAINING "AS OF"	TYPE LENGTH	FIXED TEXT 3	(C1)
"AS OF DATE"	TYPE LENGTH	DATE 6	(P2)

TITLE

WORK/ACTION (W/A) ITEM STATUS BY W/A TYPE

PURPOSE

THE PURPOSE OF THIS REPORT IS TO SHOW WORK/ACTION ITEM STATUS ARRANGED ACCORDING TO WORK/ACTION ITEM TYPE

FREQUENCY: ON REQUEST (360/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 10 PAGES

PARAMETERS

SELECTED W/A ITEM TYPE ID	TYPE LENGTH	FIXED TEXT 45	(P1)
STATUS DATE	TYPE LENGTH	DATE 6	(P2)

COMPUTATIONAL RESULTS

DAYS REMAINING AS OF STATUS DATE	TYPE LENGTH	DATE 6	(C1)

SELECTION

SELECT
WORK ITEMS (NSS)

WHERE VIA

BELONGS TO WORK ITEM TYPE (NSGV)

W/A ITEM TYPE ID (GV1650)
IS EQUAL TO

SELECTED W/A ITEM TYPE ID	TYPE LENGTH	FIXED TEXT 45	(P1)

DISPLAY

LEVEL 1

W/A ITEM TYPE ID			(GV1650)
W/A ITEM TYPE TITLE			(GV5236)
W/A ITEM TYPE DESCRIPTION			(GV5280)
TYPICAL SENDING OFFICE			(GV3014)
TYPICAL RECEIVING OFFICE			(GV762?)

LEVEL 2

SENDING OFFICE CODE			(NS2310)
RECEIVING OFFICE CODE			(NS1782)
ITEM SEQUENCE NUMBER			(NS6468)
INITIAL ENTRY DATE			(NS0902)
REQUESTED COMPLETION DATE			(NS9361)
REQUESTOR			(NS2376)
ACTUAL COMPLETION DATE			(NS7469)
W/A ITEM CLOSE OUT CODE			(NS8470)
DAYS REMAINING AS OF STATUS DATE	TYPE LENGTH	DATE 6	(C1)
STATUS DATE	TYPE LENGTH	DATE 6	(P2)

LEVEL 3

W/A ITEM DESCRIPTION			(NS6391)

TITLE

WORK/ACTION (W/A) ITEM SUMMARY BY NRC OFFICE

PURPOSE

THE PURPOSE OF THIS REPORT IS TO PROVIDE A MANAGEMENT SUMMARY TO AN NRC OFFICE OF W/A ITEMS ACTIVE WITHIN THAT OFFICE BY MILESTONE WITH STATISTICAL MEASURES APPLIED TO COMPLETED MILESTONES

FREQUENCY: ON REQUEST (240/YR)

TURN-AROUND: OVERNIGHT

LENGTH: APPROX. 10 PAGES

PARAMETERS

NRC OFFICE REQESTING/ASSIGNED W/A ITEM	TYPE LENGTH	FIXED TEXT 40	(P1)
START DATE OF SUMMARY PERIOD	TYPE LENGTH	DATE 6	(P2)
ENDING DATE OF SUMMARY PERIOD	TYPE LENGTH	DATE 6	(P3)

COMPUTATIONAL RESULTS

398

DAYS EARLY(+)/LATE(-) FOR COMPLETION	TYPE LENGTH	DATE 6	(C1)
MANHRS UNDER(+)/OVER(-) ESTIMATE	TYPE LENGTH	DATE 3	(C2)
NUMBER OF ON TIME MILESTONES	TYPE LENGTH	DATE 3	(C3)
NUMBER OF LATE MILESTONES	TYPE LENGTH	DATE 3	(C4)
TOTAL NUMBER OF COMPLETED MILESTONES	TYPE LENGTH	DATE 3	(C5)
NUMBER OF MILESTONES WITHIN BUDGET	TYPE LENGTH	DATE 3	(C6)
NUMBER OF MILESTONES OVER BUDGET	TYPE	DATE	(C7)

	LENGTH	3	
AVERAGE NUMBER OF DAYS EARLY(+)/LATE(-)	TYPE LENGTH	DATE 3	(C8)
STANDARD DEVIATION FOR COMPL' DATE	TYPE LENGTH	DATE 3	(C9)
AVERAGE MANHRS UNDER(+)/OVER(-) BUDGET	TYPE LENGTH	DATE 3	(C10)
STANDARD DEVIATION FOR MNHR BUDGET	TYPE LENGTH	DATE 3	(C11)

SELECTION
-------END S

SELECT
WORK ITEMS (NSS)

WHERE

SENDING OFFICE CODE AND/OR			(NS2310)
RECEIVING OFFICE CODE IS EQUAL TO			(NS1782)
NRC OFFICE REQESTING/ASSIGNED W/A ITEM	TYPE LENGTH	FIXED TEXT 40	(P1)

AND ONE OR MORE
OF THE FOLLOWING:

INITIAL ENTRY DATE IS EQUAL TO OR GREATER THAN			(NS0902)
START DATE OF SUMMARY PERIOD	TYPE LENGTH	DATE 6	(P2)
AND EQUAL TO OR LESS THAN			
ENDING DATE OF SUMMARY PERIOD	TYPE LENGTH	DATE 6	(P3)
AND/OR			
REQUESTED COMPLETION DATE IS EQUAL TO OR GREATER THAN			(NS9361)
START DATE OF SUMMARY PERIOD	TYPE LENGTH	DATE 6	(P2)
AND EQUAL TO OR LESS THAN			
ENDING DATE OF SUMMARY PERIOD	TYPE LENGTH	DATE 6	(P3)
AND/OR			
ACTUAL COMPLETION DATE			(NS7469)

IS EQUAL TO OR GREATER THAN

START DATE OF SUMMARY PERIOD — TYPE DATE, LENGTH 6 — (P2)

AND EQUAL TO OR LESS THAN

ENDING DATE OF SUMMARY PERIOD — TYPE DATE, LENGTH 6 — (P3)

AND VIA

BELONGS TO WORK ITEM TYPE (NSGV)

W/A ITEM TYPE ID (GV1650)
AND VIA

HAS MILESTONES (NSSD)

MILESTONES (SDS)
THEN VIA
MAY BE RESPONSIBILITY OF NRC EMPLOYEE (SDHQ)

NRC EMPLOYEE (HQ)

DISPLAY

LEVEL 1

NRC OFFICE REQESTING/ASSIGNED W/A ITEM — TYPE FIXED TEXT, LENGTH 40 — (P1)

W/A ITEM TYPE ID (GV1650)

LEVEL 2

SENDING OFFICE CODE (NS2310)

RECEIVING OFFICE CODE (NS1782)

ITEM SEQUENCE NUMBER (NS6468)

PRIORITY (CODE) (NS6281)

INITIAL ENTRY DATE (NS0902)

REQUESTED COMPLETION DATE (NS9361)

LEVEL 3

ESTIMATED NUMBER OF MANHOURS REQUIRED (SD4895)

ACTUAL NUMBER OF MANHOURS USED (SD1507)

MILESTONE ID (SD1716)

EXPECTED COMPLETION DATE (SD8745)

ACTUAL COMPLETION DATE (SD4015)

LEVEL 2 CALCULATIONS ASSOCIATED WITH COMPLETED MILESTONES
(IF "ACTUAL COMPLETION DATE" DOES NOT EXIST THE FOLLOWING CALCULATIONS ARE NOT CARRIED OUT NOR IS THIS MILESTONE COUNTED FOR STATISTICAL PURPOSES)

DAYS EARLY(+)/LATE(-) FOR COMPLETION	TYPE LENGTH	DATE 6	(C1)
MANHRS UNDER(+)/OVER(-) ESTIMATE	TYPE LENGTH	DATE 3	(C2)
NUMBER OF ON TIME MILESTONES	TYPE LENGTH	DATE 3	(C3)
NUMBER OF LATE MILESTONES	TYPE LENGTH	DATE 3	(C4)
TOTAL NUMBER OF COMPLETED MILESTONES	TYPE LENGTH	DATE 3	(C5)
NUMBER OF MILESTONES WITHIN BUDGET	TYPE LENGTH	DATE 3	(C6)
NUMBER OF MILESTONES OVER BUDGET	TYPE LENGTH	DATE 3	(C7)
AVERAGE NUMBER OF DAYS EARLY(+)/LATE(-)	TYPE LENGTH	DATE 3	(C8)
STANDARD DEVIATION FOR COMPL' DATE	TYPE LENGTH	DATE 3	(C9)
AVERAGE MANHRS UNDER(+)/OVER(-) BUDGET	TYPE LENGTH	DATE 3	(C10)
STANDARD DEVIATION FOR MNHR BUDGET	TYPE LENGTH	DATE 3	(C11)

TITLE

WORK-ITEM-TYPE AND MILESTONE-TYPE FORM

PURPOSE

THIS FORM IS USED TO INPUT NEW WORK-ITEM-TYPES AND ASSOCIATED NEW MILESTONE-TYPES

FREQUENCY: FOR EACH NEW WORK-ITEM-TYPE

LEVEL 1

UPDATE

WORK ITEM TYPE	(GV)
KEYED BY	
W/A ITEM TYPE ID	(GV1650)

OTHER DATA

W/A ITEM TYPE TITLE	(GV5236)
W/A ITEM TYPE DESCRIPTION	(GV5280)
TYPICAL SENDING OFFICE	(GV3014)
TYPICAL RECEIVING OFFICE	(GV7623)

LEVEL 2

UPDATE

MILESTONE TYPE	(DT)
KEYED BY	
MILESTONE TYPE ID	(DT3938)
IDENTITY RELATIONSHIP	
BELONGS TO WORK ITEM TYPE	(DTGV)

OTHER DATA

MILESTONE TYPE TITLE	(DT7502)
MILESTONE TYPE DESCRIPTION	(DT5742)
TYPICAL NUMBER OF MANHOURS REQUIRED	(DT0418)
TYPICAL # OF WORKING DAYS REQUIRED	(DT7194)

TITLE

JOB TITLE CATALOG FORM

PURPOSE

THIS FORM IS USED TO UPDATE THE JOB TITLE CATALOG

FREQUENCY: FOR EACH JOB TITLE ENTERING THE SYSTEM

LEVEL 1

UPDATE

JOB TITLE	(XL)
KEYED BY	
JOB TITLE/LEVEL	(XL3927)
IDENTITY RELATIONSHIP	
BELONGS TO NRC S/G ORGANIZATION	(XLHF)
KEYED BY	
ORGANIZATIONAL UNIT TITLE	(HF2893)

TITLE

NRC SAFEGUARDS ORGANIZATION FORM.

PURPOSE

THIS FORM IS USED TO INPUT INFORMATION CONCERNING NRC SAFEGUARDS ORGANIZATION

FREQUENCY: AS NECESSARY TO SPECIFY THE NRC S/G ORGANIZATION UNITS

LEVEL 1

UPDATE

NRC S/G ORGANIZATION (HF)
KEYED BY
ORGANIZATIONAL UNIT TITLE (HF2893)

TITLE

WORK ITEM FORM

PURPOSE

THIS FORM IS USED TO INPUT NEW WORK ITEMS AND MILESTONES

FREQUENCY: FOR EACH NEW WORK ITEM

LEVEL 1

UPDATE

WORK ITEM	(NS)
KEYED BY	
ITEM SEQUENCE NUMBER	(NS6468)
DATA RELATIONSHIP	
REQUESTED BY NRC EMPLOYEE	(NSHQ)
KEYED BY	
EMPLOYEE ID	(HQ1463)
DATA RELATIONSHIP	
BELONGS TO WORK ITEM TYPE	(NSGV)
KEYED BY	
W/A ITEM TYPE ID	(GV1650)

OTHER DATA

SENDING OFFICE CODE	(NS2310)
RECEIVING OFFICE CODE	(NS1782)
PRIORITY (CODE)	(NS6281)
FACILITY	(NS6919)
INITIAL ENTRY DATE	(NS0902)
REQUESTED COMPLETION DATE	(NS9361)
REQUESTOR	(NS2376)
W/A ITEM DESCRIPTION	(NS6391)
ACTUAL COMPLETION DATE	(NS7469)
W/A ITEM CLOSE OUT CODE	(NS8470)

LEVEL 2

UPDATE

MILESTONE	(SD)
KEYED BY	
MILESTONE ID	(SD1716)
IDENTITY RELATIONSHIP	
BELONGS TO A WORK ITEM	(SDNS)

DATA RELATIONSHIP

BELONGS TO MILESTONE TYPE	(SDDT)
KEYED BY	
MILESTONE TYPE ID	(DT3938)
DATA RELATIONSHIP	
MAY BE RESPONSIBILITY OF NRC EMPLOYEE	(SDHQ)
KEYED BY	
EMPLOYEE ID	(HQ1463)

OTHER DATA

EXPECTED COMPLETION DATE	(SD8745)
ESTIMATED NUMBER OF MANHOURS REQUIRED	(SD4895)
ACTUAL COMPLETION DATE	(SD4015)
ACTUAL NUMBER OF MANHOURS USED	(SD1507)

DETAILED DEFINITION OF
REQUIREMENTS

PART III

DATA BASE COMPOSITION

DDR DIRECTORY

LISTING OF CONSTRUCTS BY TITLE

ISIS DDR DIRECTORY

LISTING OF CONSTRUCTS BY TITLE

ISIS DDR DIRECTORY

LISTING OF CONSTRUCTS BY TITLE

ISIS DDR DIRECTORY

LISTING OF CONSTRUCTS BY TITLE

DATA BASE DIAGRAM

DATA BASE COMPOSITION

LICENSEE (FV)
LICENSEES (FVS)

A PERSON OR CORPORATE ENTITY POSSESSING ONE OR MORE NRC OR STATE LICENSES

OPT. SIZE = 200 MAX. SIZE = 500
OPT. OCCUR. = 5000 MAX. OCCUR. = 15000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS LICENSES (FVNH)

*DATA ELEMENTS

LICENSEE ID (FV1808.

CORPORATE NAME OF LICENSEE (FV0396.

CORPORATE ADDRESS (FV2706.

LICENSE (NH)
LICENSES (NHS)

THERE WILL BE ONE LICENSE CONSTRUCT FOR EACH LICENSE WITH SAFEGUARDS CONCERN STORED WITHIN ISIS. THE LICENSES MAY INCLUDE NRC FACILITY LICENSES AND AGREEMENT STATE LICENSES. THE LICENSE CONSTRUCT WILL IDENTIFY THE LICENSE NUMBER OR DOCKET NUMBER AS WELL AS THE LICENSING AUTHORITY.

OPT. SIZE = 100 MAX. SIZE = 200
OPT. OCCUR. = 15000 MAX. OCCUR. = 45000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLIES TO LICENSEE (NHFV)
APPLIES TO PHASE (NHKV)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

MAY APPLY TO EVENT DOCUMENTATIONS (NHMN)
CROSS REF SITE (NHMX)
HAS INSPCT/INVESTIGATIONS (NHWZ)
HAS LICENSE TEXTS (NHZT)

*DATA ELEMENTS

LICENSE NUMBER (NH2655)

DOCKET NUMBER (NH2112)

LICENSING AUTHORITY INDICATOR (NH0473)
NRC OR AGREEMENT STATES

LICENSEE NAME CODE (NH1562)
6 CHARACTERS

PRIORITY/CATEGORY (NH0253)
FROM MAT. MASTER FILE OR REACTOR MASTER FILE, BUT NEEDS TO BE DEFINED AND INPUT BY A FORM IN IRS?
NOT YET DOCUMENTED
MEANS SAME THING AS PRIORITY?

SAFEGUARDS GROUP NUMBER (NH3839)
FROM MASTER FILE (MAT OR REACTOR)
1 TO 1 W/ LICENSE

CONTI

AMENDMENT REFERENCE (NH3366)

AMENDMENT DATE (NH7700)

LICENSE TEXT (ZT)
LICENSE TEXTS (ZTS)

REFERENCE TO THE CONTENT OF ONE SPECIFIC PORTION OF A LICENSE

*NOTE: IS A SUBCONSTRUCT OF CATALOG ENTRY

OPT. SIZE = 100 MAX. SIZE = 200
OPT. OCCUR. = 15000 MAX. OCCUR. = 45000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS OWNED BY LICENSE (ZTNH)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS INSP MOD ASSIGNMENTS (ZTTF)
MAY SPECIFY LICENSE FORMULA LIMITS (ZTFB)
CROSS REF N/C CODE (ZTBN)

*DATA ELEMENTS

LICENSE TEXT SUBSET IDENTIFIER (ZT6798)
THE ID INFORMATION VARIES ACCORDING TO THE LEVEL
OF THE CATALOG HIERARCHY:
LEVEL 1 - LICENSE # (ALWAYS)
LEVEL 2 - PLAN ID (PHYSICAL SECURITY ETC.)

LICENSE TEXT STATUS (ZT8613)
TYPICAL VALUES ARE:
SUBMITTED
REJECTED
APPROVED
EFFECTIVE
TERMINATED

LICENSE TEXT SORT KEY (ZT2079)

MICROFICHE NUMBER (ZT3729)

SUBMITTAL DATE (ZT4928)

APPROVAL DATE (ZT5676)

REJECTED DATE (ZT4877)

CONTI

EFFECTIVE DATE (ZT6820)

TERMINATION DATE (ZT7392)

REGION (SM)
REGIONS (SMS)

A JURISDICTION FOR PURPOSES OF INSPECTIONS, ETC.

OPT. SIZE = 50 MAX. SIZE = 100
OPT. OCCUR. = 5 MAX. OCCUR. = 10

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS S/G RESPONSIBILITY FOR SITES (SMMXS)
IS GEOGRAPHIC LOCATION OF SITES (SMMXG)
MAY HAVE AGREEMENT STATES (SMMS)

*DATA ELEMENTS

REGION NUMBER (SM2838)
THE NRC ASSIGNED NUMBER USED TO IDENTIFY EACH REGIONAL OFFICE

REGION LOCATION (SM2123)
THE GEOGRAPHIC LOCATION OF THE REGIONAL OFFICE (CITY,STATE)

AGREEMENT STATE (MS)
AGREEMENT STATES (MSS)

THE IDENTIFICATION OF A PARTICULAR STATE WHICH HAS ESTABLISHED AGREEMENTS WITH NRC FOR THE STATE LICENSING OF NUCLEAR MATERIAL.

OPT. SIZE = 40 MAX. SIZE = 100
OPT. OCCUR. = 50 MAX. OCCUR. = 100

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS LOCATED IN A REGION (MSSM)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS SITES (MSMX)

*DATA ELEMENTS

NAME OF STATE (MS4389)

DATE OF AGREEMENT (MS5918)

DATE OF LAST AMENDMENT (MS9504)

AGREEMENT REFERENCE (MS8261)

COMMENTS (MS8019)

SITE (MX)
SITES (MXS)

A FACILITY UNDER THE JURISDICTION OF AN NRC OR AGREEMENT STATE LICENSE, APPLIES TO FACILITY SITE OR TO TRANSPORT TERMINAL

OPT. SIZE = 1000 MAX. SIZE = 3000
OPT. OCCUR. = 3000 MAX. OCCUR. = 6000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

HAS S/G RESPONSIBILITY TO REGION (MXSMS)
IS GEOGRAPHICALLY LOCATED IN REGION (MXSMG)
IS IN AGREEMENT STATE (MXMS)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

IS DESCRIBED BY SITE DESCRIPTIONS (MXMV)
HAS MATL BALANCE AREAS (MXRB)
HAS EVENTS (MXFR)
CROSS REF LICENSE (MXNH)

*DATA ELEMENTS

ZIP CODE AREA IN WHICH SITE IS LOCATED (MX1027)

STATE (MX2798)

CITY (MX2304)

LATITUDE/LONGITUDE (MX1885)
CATALOG LEVEL 1 DATA ELEMENT

FACILITY NAME (MX3850)
LEVEL 1

FACILITY ADDRESS (MX8349)
CATALOG LEVEL 1 D.E.

CORPORATE OWNERSHIP (MX9042)

CORPORATE ADDRESS (MX7139)

FACILITY TYPE (MX3168)
FUEL CYCLE COMPONENT

CONTI

SAFEGUARDS GROUP (MX1276)
I&E CATEGORIZATION
I-VII
(SEE DEFINITION SAFEGUARDS GROUP P. 2 OF MC 2680 FOR DEFINITIONS)
HAS TO DO W/ AUTHORIZED POSSESSION LIMITS

MAT ACCOUNTING CONTACT NAME (MX9515)
NAME OF S/G PERSON RESPONSIBLE FOR MAT ACCOUNTING

PLANT PHONE NO-MAT ACCOUNTING CONTACT (MX6325)

HOME PHONE NO-MAT ACCOUNTING CONTACT (MX9240)

PHYS SECURITY CONTACT NAME (MX1914)
NAME OF S/G PERSON HAVING RESPONSIBILITY FOR PHYS-SECURITY

PLANT PHONE NO-PHYS SECURITY CONTACT (MX3487)

HOME PHONE NO-PHYS SECURITY CONTACT (MX3652)

S/G CONTACT NAME (MX2717)

PLANT PHONE NO-S/G CONTACT (MX8283)

HOME PHONE NO-S/G CONTACT (MX2519)

OVERALL CONTACT NAME (MX4246)
NAME OF S/G PERSON RESPONSIBLE FOR OVERALL MBA

PLANT PHONE NO,OVERALL MBA CONTACT (MX3872)

HOME PHONE NO,OVERALL MBA CONTACT (MX4070)

OTHER CONTACT (MX9053)
S/G PERSON TO CONTACT IF THE PREVIOUS LISTED PERSONNEL CANT BE REACHED

PLANT PHONE NO-OTHER CONTACT (MX6743)

HOME PHONE NO-OTHER CONTACT (MX9185)

CENTRAL GUARD STATION PHONE NO (MX1474)

ICC IDENTIFICATION NUMBER (MX2765)

MOST RECENT GUARD HIRE DATE (MX0742)

SITE DESCRIPTION (MV)
SITE DESCRIPTIONS (MVS)

IF CATALOGED, A CLASSIFICATION OF AREAS, BEGINNING WITH 'SITE' AND ENDING WITH A DESCRIPTION OF THE MOST DETAILED AREA OF INTEREST TO SAFEGUARDS. IF NOT, SIMPLY MORE DETAIL OF A SITE.

OPT. SIZE = 10 MAX. SIZE = 20
OPT. OCCUR. = 4000 MAX. OCCUR. = 8000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

DESCRIBES SITE (MVMX)
DESCRIBES MATL BALANCE AREA (MVRB)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS KEY MEASUREMENT POINTS (MVPB)

*DATA ELEMENTS

NUMBER OF MBAS (MV1182)

NUMBER OF ICAS (MV4536)

AREA IDENTIFICATION (MV9691)

KEY MEAS POINT (PB)
KEY MEAS POINTS (PBS)

RECORD OF CRITICAL POINTS WHICH ARE MATERIAL BALANCE AREA KEY MEASUREMENT POINTS.

OPT. SIZE = 100 MAX. SIZE = 200
OPT. OCCUR. = 1000 MAX. OCCUR. = 2000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLIES TO SITE DESCRIPTION (PBMV)
APPLIES TO MATERIAL BAL AREA (PBRB)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS ASSOCIATED MEASUREMENT LIMITS (PBPL)

*DATA ELEMENTS

KEY MEASUREMENT POINT ID (PB4130)

MEASUREMENT DESCRIPTION (PB1523)

MEASUREMENT LIMIT (PL)
MEASUREMENT LIMITS (PLS)

THE FACT THAT AN NRC BALANCE MATERIAL CAN BE MEASURED AT A GIVEN KEY MEASUREMENT POINT AND THE ACCURACY TO WHICH THIS MEASUREMENT CAN BE OBTAINED.

OPT. SIZE = 30 MAX. SIZE = 60
OPT. OCCUR. = 5000 MAX. OCCUR. = 10000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLIES TO A KEY MEASUREMENT POINT (PLPB)
IS IN TERMS OF AN NRC BALANCE MATERIAL (PLZJ)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

IS COMPARED AGAINST VALUES (PLSZ)

*DATA ELEMENTS

ELEMENT LIMIT OF ERROR (PL0675)

ISOTOPE LIMIT OF ERROR (PL1204)

ACCOUNT ID (TM)
ACCOUNT IDS (TMS)

RECORD OF THE CURRENT REPORTING IDENTIFICATION SYMBOLS (RIS) ASSIGNED TO NRC LICENSED FACILITIES.

OPT. SIZE = 50 MAX. SIZE = 100
OPT. OCCUR. = 4000 MAX. OCCUR. = 8000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

MAY HAVE AN OWNER (TMVD)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

INCLUDES MATL BALANCE AREAS (TMRB .
MAY HAVE MAT'L SHIPPED IN A S/R PAIR (TMKX)

*DATA ELEMENTS

REPORTING IDENTIFICATION SYMBOL (TM6248.

RIS TYPE (TM5731)
LICENSEE
DOE
ETC.

IAEA SUFFIX (1 CHARACTER) (TM6842)

IAEA MBA TYPE (TM1243)

RIS STATUS CODE (TM1864.
-ACTIVE
-INACTIVE

RIS ADDRESS (IF ANY) (TM1566.

MATERIAL BAL AREA (RB)
MATL BAL AREAS (RBS)

A COLLECTION OF AREAS WITHIN A 'SITE' WHICH ARE REGARDED AS EQUIVALENT WITH RESPECT TO THE LOCATION OF REGULATED MATERIAL. (FOR EXAMPLE, AN MBA IS A MATERIAL BALANCE AREA, BUT THE CONCEPT IS BROADER THAN THE CURRENT MBA CONCEPT. FLEXIBILITY EXISTS HERE SO THAT NRC MAY REQUIRE REPORTING OF MATERIAL MOVEMENT TO ANY DETAIL. AT ONE EXTREME, NRC MAY DEFINE A SAFEGUARDS REPORTING AREA FOR A WHOLE SITE (THIS IS DONE NOW IN NMMSS AND IS CALLED A RIS). AT THE OTHER EXTREME, NRC MAY DEFINE A S/G REPORTING AREA FOR EACH LOWEST LEVEL PHYSICAL SECURITY AREA AT A SITE, REQUIRING A REPORT WHENEVER MATERIAL MOVES FROM ONE TO ANOTHER. IT IS PROJECTED THAT ON BALANCE THESE EXTREMES GIVES NRC ADEQUATE VISIBILITY WITHOUT OVERBURDENING THE LICENSEES.)

OPT. SIZE = 200 MAX. SIZE = 300
OPT. OCCUR. = 4000 MAX. OCCUR. = 8000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS INCLUDED IN AN ACCOUNT ID (RBTM)
IS IN A SITE (RBMX)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

DEFINES'TO'POINT OF TRANSFER SERIES (RBNXT)
DEFINES'FROM'POINT OF TRANSFER SERIES (RBNXF)
HAS MBA FORMULA LIMITS (RBCS)
ARE DEFINED FOR SITE DESCRIPTIONS (RBMV)
MAY HAVE KEY MEAS POINTS (RBPB .

*DATA ELEMENTS

RIS SUFFIX (RB3520.

RESPONSIBLE POSITION TITLE (RB9801.

MBA RESPONSIBLE INDIVIDUAL NAME (RB8459.

INDIVIDUALS ADDRESS (RB4851.

INDIVIDUALS PHONE NUMBER (R. 3

TRANSFER SERIES (NX)
TRANSFER SERIES (NXS)

THE FACT THAT REGULATED NUCLEAR MATERIAL HAS BEEN OR MAY BE TRANSFERRED FROM ONE 'MATERIAL BALANCE AREA' TO ANOTHER. FOR SOME TRANSACTIONS THE TWO 'MATERIAL BALANCE AREAS' MAY BE THE SAME.

OPT. SIZE = 0 MAX. SIZE = 0
OPT. OCCUR. = 100000 MAX. OCCUR. = 500000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

-ONE (ONLY) OF THE FOLLOWING
DEFINES TO POINT AS COUNTRY FACILITY (NXRFT)
DEFINES TO POINT AS MATL BALANCE AREA (NXRBT)
-ONE (ONLY) OF THE FOLLOWING
DEFINES FROM POINT AS COUNTRY FACILITY (NXRFF)
DEFINES FROM POINT AS MATL BALANCE AREA (NXRBF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS SHIPPER/RECEIVER PAIRS (NXKX)

*DATA ELEMENTS

NONE

SHIPPER/RECEIVER PAIR (KX)
SHIP/REC PAIRS (KXS)

INDICATES THE LINKAGE OF A UNIQUE SHIPPER AND RECEIVER FOR THAT SHIPMENT.

OPT. SIZE = 20 MAX. SIZE = 50
OPT. OCCUR. = 500000(5YRS) MAX. OCCUR. = 2500000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLIES TO TRANSFER SERIES (KXNX)
-ON' (ONLY) OF THE FOLLOWING
MAY BE SHIPPED FOR AN OWNER (KXVD)
OR MAY BE SHIPPED FOR AN OWNER'S ACCOUNT (KXTM)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS A SHIPPER MATL ACCTG TRANSACTION (KXPFS)
HAS A RECEIVER MATL ACCTG TRANSACTION (KXPFR)
HAS TRANSACTION BATCHES (KXKQ)

*DATA ELEMENTS

TRANSFER SERIAL NUMBER (KX1012)

DATE SHIPPED (KX3205)

DATE RECEIVED (KX1402)

MAT ACCTG TRANSACTION (PF)
MAT ACCT TRANSACTIONS (PFS)

RECORD OF THE SUBMITTAL OF A MATERIAL ACCOUNTING TRANSACTION FORM (CURRENTLY THE NRC 741 FORM). IN THE FUTURE, TRANSACTIONS MAY ALSO INCLUDE PHYSICAL INVENTORY DATA AS WELL AS MEASUREMENT KMP CALIBRATION DATA.

OPT. SIZE = 1000 MAX. SIZE = 2000
OPT. OCCUR. = 200000 MAX. OCCUR. = 1000000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

-ONE (ONLY) OF THE FOLLOWING
MAY BE SHIPPER'S HALF IN S/R PAIR (PFKXS)
MAY BE RECEIVER'S HALF IN S/R PAIR (PFKXR)
MAY HAVE CORRECTION SEQUENCE (PFMB)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS LINE ITEMS (PFHN)
MAY HAVE ERRORS (PFVS)

*DATA ELEMENTS

TRANSACTION TYPE (PF1408)

TRANSACTION NUMBER (PF2530)

DATE OF CAPTURE (PF4356)

ACTION DATE CODE (PF4048)
A-SHIPMENT
B-SHIPPER'S CORRECTION
C-RECEIPT
D-RECEIVER'S MEAS.
E-RECEIVER'S CORRECTION

ACTION DATE (PF0638)

CORRECTION NUMBER (PF9262)

STATUS FLAG (PF5896)
741-RECEIVED NOT SIGNED
741-RECEIVED W/ EDIT ERRORS

CONTI

741-RECEIVED & SIGNED
741-CORRECTED & REPLACED (INACTIVE)

SHIPPER RESPONSIBLE PERSON	(PF3608)
SHIPPER RESPONSIBLE PERSON'S PHONE #	(PF7865)
RECEIVER RESPONSIBLE PERSON	(PF2475)
RECEIVER RESPONSIBLE PERSON'S PHONE #	(PF0352)
IMPORT/EXPORT LICENSE NUMBER ON 741	(PF8910)
NATURE OF TRANSACTION SHIPMENT/NON-SHIPMENT	(PF4345)
SHIPPER FACILITY NAME - 741	(PF0242)
RECEIVER FACILITY NAME - 741	(PF4807)
RECEIVER LICENSE # - 741	(PF9581)
SHIPPER LICENSE # - 741	(PF8756)
SHIPPER'S ADDRESS - 741	(PF3124)
RECEIVER'S ADDRESS - 741	(PF8052)
U.S. PORT OF ENTRY/EXIT	(PF2057)
SHIPPER RIS FROM 741	(PF2700)
RECEIVER RIS FROM 741	(PF3261)
NUMBER OF DATA LINES	(PF4426)
SHIPPED FOR ACCOUNT OF (NAME)	(PF3777)
SHIPPED FOR ACCOUNT OF (RIS)	(PF3844)
SHIPPED TO ACCOUNT OF (NAME)	(PF1379)
SHIPPED TO ACCOUNT OF (RIS)	(PF0462)
TRANSFER AUTHORITY	(PF0088)
MATL TYPE AND DESCRIPTION	(PF3975)
MISCELLANEOUS COMMENTS	(PF2589)

	CONTI
TRANSPORTATION PROFILE - TEXT FIELD SPECIFYING TRIP SEGMENTS, AND FOR EACH THE CARRIER ID. AND TRANSFER POINTS.	(PF0203)
PACKAGE IDENTIFICATION - TEXT FIELD SPECIFYING MODEL ID. AND NUMBER	(PF2590)
TOTAL GROSS WEIGHT	(PF4217)
TOTAL VOLUME - WASTE TRANSFERS ONLY	(PF0235)
IAEA REPORT STATUS VALUES = REPORTED OR NOT REPORTED	(PF0169)

ERROR (VS)
ERRORS (VSS)

THE FACT THAT AN ERROR WAS DETECTED BY ISIS WHILE PROCESSING A MATERIAL ACCOUNTING TRANSACTION.

OPT. SIZE = 80 MAX. SIZE = 200
OPT. OCCUR. = 500000(5YRS) MAX. OCCUR. = 2500000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS DETECTED ON A MATL ACCTG TRANSACTION (VSPF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

ERROR CODE (VS1292)

COMMENTS GENERATED BY EDIT PROGRAM (VS4273)

LINE IDENTIFICATION - 741 (VS2699)
IF THE ERROR OCCURS ON THE TOP HALF OF THE 741, THIS IS IS THE LETTER/NUMBER ID FOR THAT BLOCK. IF THE ERROR OCCURS ON THE SHIPPER/RECEIVER INFO., THIS IS THE ISIS GENERATED PHYSICAL LINE NUMBER PLUS THE LETTER ID FOR THE APPROPRIATE BLOCK.

LINE ITEM (HN)
LINE ITEMS (HNS)

A LINE ON THE MATERIAL ACCOUNTING TRANSACTION FORM EXACTLY AS INPUT.

OPT. SIZE = 200 MAX. SIZE = 500
OPT. OCCUR. = 2500000(5YRS) MAX. OCCUR. = 5000000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS FROM A MATL ACCTG TRANSACTION (HNPF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

PHYSICAL LINE NUMBER - ISIS GENERATED (HN3910.

LINE NUMBER (HN4262)

CORRECTION STATUS (HN4922)
- ACTIVE
- INACTIVE(CORRECTED)
- REFERENCE(USED TO IDENTIFY LINE BEING CORRECTED)

TYPE OF INVENTORY CHANGE (HN1391)

BATCH IDENTIFICATION (HN4460)

NUMBER OF ITEMS (HN2403)

PROJECT NUMBER (HN4482)

MATERIAL TYPE (HN0686)

COMPOSITION CODE (HN1907)

PRODUCTION CODE (HN4558)

OWNER CODE (HN2623)

ORIGIN SEQUENCE ID (HN0830)

CONTI

KEY MEASUREMENT POINT	(HN0511)
MEASUREMENT BASIS	(HN1501)
GROSS WEIGHT	(HN4569)
NET WEIGHT	(HN3954)
ELEMENT WEIGHT	(HN4415)
ELEMENT LIMIT OF ERROR	(HN4327)
WEIGHT PERCENT ISOTOPE	(HN0829)
ISOTOPE WEIGHT	(HN0313)
ISOTOPE LIMIT OF ERROR	(HN1225)

CORRECTION SEQUENCE (MB)
CORRECTION SEQUENCES (MBS)

RECORD OF ANY CORRECTION SEQUENCE TO A PARTICULAR MATERIAL ACCOUNTING TRANSACTION.

OPT. SIZE = 0 MAX. SIZE = 0
OPT. OCCUR. = 500000(5YRS) MAX. OCCUR. = 2500000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

APPLIES TO MATL ACCTG TRANACTIONS (MBPF)

*DATA ELEMENTS

NONE

TRANSACTION BATCH (KQ)
TRANSACTION BATCHES (KQS)

AN ITEM OR GROUP OF ITEMS CONSIDERED TO BE A UNIT BY THE SHIPPER OR PERSON PREPARING A NON-SHIPMENT TRANSACTION.

OPT. SIZE = 150 MAX. SIZE = 100
OPT. OCCUR. = 1500000(5YRS) MAX. OCCUR. = 5000000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS IDENTIFIED WITH ONE S/R PAIR (KQKX)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CONTAINS TRANSACTION CONSTITUENTS (KQGL)

*DATA ELEMENTS

LINE NUMBER (KQ0627)
-CORRESPONDS TO ONE LINE ON 741 FORM

IDENTIFICATION (KQ8987)

NUMBER OF ITEMS (KQ4642)

GROSS WEIGHT (KQ8217)

NET WEIGHT (KQ4092)

TYPE OF INVENTORY CHANGE (KQ9141)

TRANS CONSTITUENT (GL)
TRANS CONSTITUENTS (GLS)

A SINGLE REGULATED MATERIAL WITHIN A SHIPMENT BATCH. (EXCEPT FOR MIXED OXIDES AND CERTAIN OTHER COMPLICATED ITEMS).

OPT. SIZE = 40 MAX. SIZE = 80
OPT. OCCUR. = 2500000(5YRS) MAX. OCCUR. = 10000000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

FALLS INTO NRC RANGE (GLRV)
MAY HAVE A SHIPPER MEASURED VALUE (GLSZS)
IS A PART OF TRANSACTION BATCH (GLKQ)
MAY HAVE A RECEIVER MEASURED VALUE (GLSZR)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

DEBITS AN OWNER AMOUNT (GLDSD
-AND MAY DEBIT AN ORIG SEQ AMOUNT (GLJCD
-AND DEBITS AN INVENTORY PERIOD (GLQPD
CREDITS AN OWNER AMOUNT (GLDSC
-AND MAY CREDIT AN ORIG SEQ AMOUNT (GLJCC
-AND CREDITS AN INVENTORY PERIOD (GLQPC

*DATA ELEMENTS

TYPE OF QUANTITY (GL1346
-MEASURED OR NONMEASURED

MEASUREMENT BASIS (GL8327

COMPOSITION CODE (GL1896
-PHYSICAL COMPOSITION CODE PER 741

PRODUCT CODE (GL1577
-ENRICHED TAILS

OWNER CODE (GL4570

NONMEASUREMENT (FT)
NONMEASUREMENTS (FTS)

ELEMENT AND ISOTOPIC WEIGHT ASSOCIATED WITH A TRANSACTION CONSTITUENT FOR WHICH NO MEASUREMENT ERROR EXISTS (IE, REPORT OF ACCIDENTAL MATERIAL LOSS).

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS AMOUNT OF AN NRC RANGE (FTRV)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

NONMEASURED ELEMENT WEIGHT (FT4459

NONMEASURED ISOTOPE WEIGHT (FT3535

INVENTORY BATCH (CM)
INVENTORY BATCHES (CMS)

A BATCH OF REGULATED MATERIAL MEASURED DURING A PHYSICAL INVENTORY BY THE SAME STANDARDS AND IDENTIFIABLE.

OPT. SIZE = 10 MAX. SIZE = 20
OPT. OCCUR. = 80000 MAX. OCCUR. = 150000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF ITEMS (CMCF)
CROSS REF INVENTORY PERIODS (CMJP)

*DATA ELEMENTS

BATCH NUMBER (CM7150)

ITEM (CF)
ITEMS (CFS)

AN IDENTIFIABLE ITEM CONTAINING REGULATED MATERIAL.

OPT. SIZE = 70 MAX. SIZE = 120
OPT. OCCUR. = 100000 MAX. OCCUR. = 300000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

MAY HAVE LEAK CHECKS (CFDF)
HAS MEASURED VALUES (CFSZ)
CROSS REF BATCHES (CFCM)

*DATA ELEMENTS

ITEM NUMBER/SERIAL (CF0726)

DATE OF MANUFACTURE (CF3784)

MANUFACTURER (CF2479)

ITEM DESTROYED FLAG (CF1424)
-SET WHEN A TRANSACTION COMES IN DESTROYING THIS ITEM

FREQUENCY OF REQUIRED LEAK CHECK (CF4525.

LEAK CHECK (DF
LEAK CHECKS (DFS)

THE FACT THAT A LEAK CHECK WAS PERFORMED ON AN ITEM.

OPT. SIZE = 10 MAX. SIZE = 20
OPT. OCCUR. = 10000 MAX. OCCUR. = 40000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS PERFORMED ON AN ITEM (DFCF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

DATE OF CHECK (DF0874.

STATUS (DF0378)
- OK
- NOT OK

ACTION TAKEN (DF0291)
IF NOT OK

LICENSE FORMULA LIMIT (FB)
LICENSE FORMULA LIMIT (FBS)

THE MAXIMUM AMOUNT OF EFFECTIVE KILOGRAMS WHICH ARE PERMITTED IN ONE OR MORE MATERIAL BALANCE AREAS.

OPT. SIZE = 20 MAX. SIZE = 50
OPT. OCCUR. = 4000 MAX. OCCUR. = 10000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS DEFINED IN A LICENSE TEXT (FBZT)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

ENCOMPASSES MBA FORMULA LIMITS (FBCS)
IS FURTHER DEFINED BY LICENSE POSS LIMIT (FBZD)

*DATA ELEMENTS

LIMIT SERIAL NUMBER (FB2502)

MAXIMUM EFFECTIVE KILOGRAMS (FB4965)

MBA FORMULA LIMIT (CS)
MBA FORMULA LIMITS (CSS)

THE MAXIMUM EFFECTIVE KILOGRAMS PERMITTED AT A GIVEN MATERIAL BALANCE AREA.

OPT. SIZE = 10 MAX. SIZE = 20
OPT. OCCUR. = 4000 MAX. OCCUR. = 8000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS DEFINED WITHIN LICENSE FORMULA LIMIT (CSFB)
IS DEFINED FOR AN MBA (CSRB)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

IS IN TERMS OF MBA POSS LIMITS (CSXC)

*DATA ELEMENTS

MAXIMUM EFFECTIVE KILOGRAMS (CS1270)

NRC BALANCE MATERIAL (ZJ)
NRC BALANCE MATERIALS (ZJS)

A PARTICULAR NUCLEAR MATERIAL UNDER THE REGULATION OF NRC

OPT. SIZE = 40 MAX. SIZE = 70
OPT. OCCUR. = 50 MAX. OCCUR. = 100

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS LICENSE POSS LIMITS (ZJZU)
HAS MEASUREMENT LIMITS (ZJPL)
HAS NRC RANGES (ZJRV)

*DATA ELEMENTS

ELEMENT NAME (ZJ1115)

ISOTOPE NUMBER (ZJ0356)

MEASUREMENT UNITS (ZJ2017)

NRC RANGE (RV)
NRC RANGES (RVS)

AN NRC DEFINED RANGE OF ENRICHMENT OF AN NRC BALANCE MATERIAL FOR REPORTING PURPOSES. ALL LICENSEES MUST MAINTAIN AND REPORT INVENTORIES TO THE DETAIL OF THIS RANGE.

1) FOR ANY RANGE FOR EVERY CONVENTION THERE IS A UNIQUE MATL TYPE CODE.
2) FOR ANY MATL TYPE CODE, THE RANGES DO NOT OVERLAP

OPT. SIZE = 20 MAX. SIZE = 40
OPT. OCCUR. = 100 MAX. OCCUR. = 200

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS A RANGE OF AN NRC BALANCE MATERIAL (RVZJ)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

ENCOMPASSES VALUES OF NON-MEASUREMENTS (RVFT)
DEFINES REPORTABLE INVENTORIES (RVZV)
HAS TRANSACTION CONSTITUENTS (RVGL)

*DATA ELEMENTS

BEGINNING ENRICHMENT (RV2567)

ENDING ENRICHMENT (RV2964)

STANDARD MATERIAL TYPE CODE (RV2908)

REPORTABLE INVENTORY (ZV)
REPORTABLE INVENTORIE (ZVS)

THE FACT THAT NRC BALANCE MATERIAL WITHIN A GIVEN REPORTABLE RANGE MAY BE FOUND IN A GIVEN MATERIAL BALANCE AREA.

OPT. SIZE = 0 MAX. SIZE = 0
OPT. OCCUR. = 2000 MAX. OCCUR. = 4000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS DEFINED BY AN NRC RANGE (ZVRV)
IS DEFINED BY AN MBA POSS LIMIT (ZVXC)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS ASSOCIATED INVENTORY PERIODS (ZVQP)

*DATA ELEMENTS

NONE

MBA POSSESSION LIMIT (XC)
MBA POSSESSION LIMITS (XCS)

A LIMIT OF THE AMOUNT OF REGULATED MATERIAL WITHIN A GIVEN 'MATERIAL BALANCE AREA', AS STATED IN THE LICENSE MATERIAL CONTROL PLAN. (IT MAY BE THAT ADEQUATE PHYSICAL SECURITY FOR SOME MBA'S WILL DEPEND UPON MATERIAL QUANITITIES. THIS IS CONSISTENT WITH PERFORMANCE-BASED REGULATION; AND COULD ALLOW REDUCTION IN SAFEGUARDS COST IMPACTS TO LICENSEES.)

OPT. SIZE = 30 MAX. SIZE = 60
OPT. OCCUR. = 10000 MAX. OCCUR. = 20000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLIES TO MBA FORMULA LIMIT (XCCS)
APPLIES TO LICENSE POSSESSION LIMIT (XCZD)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

DEFINES REPORTABLE INVENTORIES (XCZV)

*DATA ELEMENTS

MAXIMUM ELEMENT WEIGHT (XC2776)

MAXIMUM ISOTOPE WEIGHT (XC1083)

MAXIMUM ENRICHMENT (XC4163)

INVENTORY PERIOD
INVENTORY PERIODS (QP
(QPS

AN INVENTORY PERIOD IS THE PERIOD OF TIME BETWEEN TWO INVENTORY CLOSE-OUTS. A CLOSE-OUT IS ACCOMPLISHED BY TAKING A PHYSICAL INVENTORY. THUS, THE HISTORICAL, DATED RECORDS INDICATE THE RESULTS OF THAT PHYSICAL INVENTORY, AND CONSEQUENTLY THE CLOSE-OUT BALANCE FOR THAT INVENTORY PERIOD. THE CURRENT BALANCE AT ANY GIVEN TIME IS KEPT WITH NO CLOSE-OUT DATE INDICATED, THE UNDERSTOOD DATE BEING TODAY'S DATE. THIS CURRENT BALANCE IS ARRIVED AT BY CREDITING AND DEBITING THE PREVIOUS PERIOD CLOSE-OUT BALANCE.

OPT. SIZE = 50
OPT. OCCUR. = 20000
MAX. SIZE = 80
MAX. OCCUR. = 40000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS A REPORTABLE INVENTORY (QPZV)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF VALUES
HAS OWNER AMOUNTS (QPSZ)
MAY HAVE ORIGIN SEQ AMOUNTS (QPDS)
CROSS REF DEBITED BY TRANSACTION CONSTIT (QPJC)
CROSS REF CREDITED BY TRANSACTION CONSTI (QPGLD)
CROSS REF INVENTORY BATCHES (QPGLC)
(QPCM)

*DATA ELEMENTS

DATE (QP8085)

BOOK BALANCE - ELEMENT WEIGHT (QP4790)

BOOK BALANCE - ISOTOPE WEIGHT (QP4284)

STARTING NON ITEM (ELEMENT) (QP4713)

STARTING NON ITEM (ISOTOPE) (QP3568)

ORIGIN SEQ AMOUNT (JC
ORIGIN SEQ AMOUNTS (JCS

THE AMOUNT OF MATERIAL OF A GIVEN ORIGIN SEQUENCE ON HAND DURING A GIVEN INVENTORY PERIOD.

OPT. SIZE = 50 MAX. SIZE = 100
OPT. OCCUR. = 100000 MAX. OCCUR. = 200000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS THE AMOUNT OF AN ORIGIN SEQUENCE (JCIV
APPLIES TO AN INVENTORY PERIOD (JCQP

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF DEBITED BY A TRANSACTION CONST (JCGLD
CROSS REF CREDITED BY A TRANSACTION CONS (JCGLC
MAY HAVE S/G RESP COUNTRIES-CROSS REF (JCMC

*DATA ELEMENTS

BOOK BALANCE - ELEMENT WEIGHT (JC0852

BOOK BALANCE - ISOTOPE WEIGHT (JC4888

OWNER AMOUNT (DS)
OWNER AMOUNTS (DSS)

THE AMOUNT OF REPORTABLE INVENTORY ATTRIBUTED TO A GIVEN OWNER(DOE OR NON-DOE).

OPT. SIZE = 40 MAX. SIZE = 100
OPT. OCCUR. = 5000 MAX. OCCUR. = 15000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS DEFINED WITHIN AN INVENTORY PERIOD (DSQP)
IS FOR AN OWNER CODE (DSLC)
-ONE (ONLY) OF THE FOLLOWING
IS DOE-OWNED (DSSV)
IS NON-DOE (DSZL)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

MAY HAVE AMOUNT/COMPOSITIONS (DSKL)
CROSS REF DEBITED BY TRANSACTION CONSTIT (DSGLD)
CROSS REF CREDITED BY TRANSACTION CONSTI (DSGLC)

*DATA ELEMENTS

BOOK BALANCE - ELEMENT WEIGHT (DS0753)

BOOK BALANCE - ISOTOPE WEIGHT (DS4900.

AMOUNT/COMPOSITION (KL
AMOUNT/COMPOSITIONS (KLS

AN AMOUNT OF MATERIAL FOR A GIVEN INVENTORY COMPOSITION CODE REPORTED TO BE ON HAND AT THE END OF A PHYSICAL INVENTORY.

OPT. SIZE = 100 MAX. SIZE = 200
OPT. OCCUR. = 50000 MAX. OCCUR. = 100000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS A BREAKDOWN OF OWNER AMOUNT (KLDS

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

INVENTORY COMPOSITION CODE (KL4944
ELEMENT WEIGHT (KL3162.
ISOTOPE WEIGHT (KL3272.
SCRAP PROGRAM (KL0268.
DESA CATEGORY CODE (KL4724
WEIGHT PERCENT ISOTOPE (KL3052.
ERDA PROJECT (KL0940.
DESA PRODUCTION CODE (KL1929

VALUE (SZ)
VALUES (SZS)

THE FACT THAT A CERTAIN AMOUNT OF REGULATED MATERIAL WAS REMOVED FROM A GIVEN MATERIAL ACCOUNT AND/OR WAS ADDED TO A GIVEN MATERIAL ACCOUNT

OPT. SIZE = 50 MAX. SIZE = 100
OPT. OCCUR. = 5000000(5YRS) MAX. OCCUR. = 25000000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

MAY BE THE VALUE OF AN ITEM (SZCF)
HAS AN ASSOCIATED MEASUREMENT LIMIT (SZPL)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF INVENTORY PERIOD (SZQP)
MAY BE SHIPPER MEASURE OF TRANS CONSTITU (SZGLS)
MAY BE RECEIVER MEASURE OF TRANS CONSTIT (SZGLR)

*DATA ELEMENTS

MEASURED ELEMENT WEIGHT (SZ4504.

MEASURED ISOTOPIC WEIGHT (SZ3294.

ERROR (ISOTOPIC) (SZ2237.

ERROR (ELEMENT) (SZ3425.

ISIS DDR PART II DATA BASE COMPOSITION

OWNER (VD)
OWNERS (VDS)

THE LEGAL OWNER OF THE REGULATED MATERIAL

OPT. SIZE = 60 MAX. SIZE = 120
OPT. OCCUR. = 5000 MAX. OCCUR. = 8000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

MAY HAVE ACCOUNTS (VDTM)
MAY OWN MATERIAL OCCURRING IN A S/R PAIR (VDKX)

*DATA ELEMENTS

OWNER NAME (VD2728)

OWNER ADDRESS (VD6897)

OWNER RIS (IF ANY) (VD3718)

OWNER CITY (VD3788)

ISIS DDR PART II DATA BASE COMPOSITION

OWNER CODE PROJECT (LC)
OWNER CODE PROJECTS (LCS)

AT THE TIME OF A PHYSICAL INVENTORY, MATERIAL IS INVENTORIED AS DOE OR NON-DOE OWNED. THE RESULTS ARE SUBMITTED ON FORM 742.

OPT. SIZE = 10 MAX. SIZE = 20
OPT. OCCUR. = 2 MAX. OCCUR. = 10

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS OWNER AMOUNTS (LCDS)

*DATA ELEMENTS

OWNER CODE (LC0693)
VALUES = DOE OR NON-DOE

DOE-OWNED (SV)
DOE-OWNED (SVS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS OWNER AMOUNTS (SVDS)

*DATA ELEMENTS

NONE

NON-DDE (ZL)
NON-DDE (ZLS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS OWNER AMOUNTS (ZLDS)

*DATA ELEMENTS

NONE

COUNTRY (MC)
COUNTRIES (MCS)

A SOVEREIGN STATE. DATA ABOUT THE COUNTRY ARE STORED IN THIS CONSTRUCT.

OPT. SIZE = 80 MAX. SIZE = 160
OPT. OCCUR. = 150 MAX. OCCUR. = 500

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS COUNTRY FACILITIES (MCRF)
CROSS REF ORIGIN SEQUENCES (MCTV)
MAY HAVE S/G ATTACHMENT TO ORIGIN SEQ AM (MCJC)

*DATA ELEMENTS

NAME OF COUNTRY (MC0691)

COUNTRY IAEA CODE (MC2545)

COUNTRY ID CODE (MC9724)

COUNTRY RIS (MC1958)

NPT STATUS (MC4136)

DATE OF NPT SIGNING (MC6875)

DOS CONTACT NAME (MC5369)

DOS OFFICE SYMBOL (ADDRESS) (MC8316)

DOS CONTACT PHONE NUMBER (MC8514)

DOS CONTACT DATA ENTRY DATE (MC9702)

ORIGIN SEQUENCE (TV)
ORIGIN SEQUENCES (TVS)

MATERIAL PROCESSING HISTORY OF A REGULATED NUCLEAR MATERIAL.

OPT. SIZE = 20 MAX. SIZE = 50
OPT. OCCUR. = 1000000 MAX. OCCUR. = 8000000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF COUNTRIES (TVMC)
HAS ORIGIN SEQUENCE AMOUNTS (TVJC)

*DATA ELEMENTS

ORIGIN SEQUENCE ID (TV0423)

FOREIGN FACILITY (RF)
FOREIGN FACILITIES (RFS)

RECORD OF INFORMATION ABOUT SPECIFIC FACILITIES IN FOREIGN COUNTRIES. NOTE THAT FOR IMPORT OR EXPORT OF MATERIAL FROM A COUNTRY WHERE INDIVIDUAL FACILITY INFORMATION IS NOT AVAILABLE, A "DUMMY" COUNTRY FACILITY IS NECESSARY.

OPT. SIZE = 80 MAX. SIZE = 160
OPT. OCCUR. = 1500 MAX. OCCUR. = 5000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

BELONGS TO COUNTRY (RFMC)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

MAY BE TO POINT OF TRANSFER SERIES (RFNXT)
MAY BE FROM POINT OF TRANSFER SERIES (RFNXF)

*DATA ELEMENTS

FACILITY NAME (RF5082)

FACILITY LOCATION (RF4565)

FACILITY PHONE NUMBER (RF1005)

FACILITY TYPE (RF3256)

FACILITY ID (RF2920)

FACILITY IAEA CODE (RF3074)

FACILITY RIS (RF5819)

PHYSICAL/GENERIC (RF6985)
A COUNTRY MAY NOT HAVE A SPECIFIC, REAL FACILITY THAT YOU SHIP TO, SO NAME A BROAD FACILITY THAT MAY BE EQUIVALENT TO THE COUNTRY ITSELF

OWNER NAME (RF3678)

OWNER ADDRESS (RF3404)

LICENSE POSS LIMIT (ZD
LICENSE POSS LIMITS (ZDS

FOR A GIVEN REGULATED MATERIAL, THE MAXIMUM AUTHORIZED POSSESSION UNDER A GIVEN LICENSE

OPT. SIZE = 50
OPT. OCCUR. = 10000
MAX. SIZE = 80
MAX. OCCUR. = 25000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLIES TO LICENSE FORMULA LIMIT (ZDFB
IS DEFINED IN TERMS OF NRC BALANCE MATER (ZDZJ)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

GOVERNS MBA POSSESSION LIMITS (ZDXC)

*DATA ELEMENTS

MATERIAL ENRICHMENT (ZD0495)

MAXIMUM ELEMENT WEIGHT (ZD0466)

MAXIMUM ISOTOPIC WEIGHT (ZD0576)

TRIP (WG)
TRIPS (WGS)

THE FACT THAT A 'TRANSPORT' WAS USED TO CONVEY ONE OR MORE SHIPMENTS

OPT. SIZE = 20 MAX. SIZE = 40
OPT. OCCUR. = 200 MAX. OCCUR. = 400

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

MAY HAVE EVENTS (WGFR)

*DATA ELEMENTS

CARRIER ID (WG4829)
THE CARRIER THIS OCCURANCE (IE. CONTINENTAL DIR. NMF-101)

TRIP IDENTIFICATION NUMBER (WG8584)

NRC S/G ORGANIZATION (nF)
NRC S/G ORGANIZATIONS (nFS)

THE CURRENT ORGANIZATION CHART OF NRC

*NOTE: IS A SUBCONSTRUCT OF CATALOG ENTRIES

OPT. SIZE = 10 MAX. SIZE = 20
OPT. OCCUR. = 200 MAX. OCCUR. = 400

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS NRC EMPLOYEES (nFnQ)
HAS JOB TITLES (nFxL)

*DATA ELEMENTS

ORGANIZATIONAL UNIT TITLE (nF2893)

ISIS DDR PART II DATA BASE COMPOSITION

JOB TITLE (XL)
JOB TITLES (XLS)

DESCRIPTION OF JOB POSITIONS WITHIN NRC. THE JOB TITLE CONSTRUCTS ARE ARRANGED IN A HIERARCHICAL STRUCTURE DENOTING PERSONNEL SUPERIORS.

*NOTE: IS A SUBCONSTRUCT OF CATALOG ENTRIES

OPT. SIZE = 20 MAX. SIZE = 40
OPT. OCCUR. = 300 MAX. OCCUR. = 800

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

BELONGS TO NRC S/G ORGANIZATION (XLHF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF TO NRC EMPLOYEE (XLHQ)

*DATA ELEMENTS

JOB TITLE/LEVEL (XL3927)

NRC EMPLOYEE (HQ)
NRC EMPLOYEES (HQS)

A PERSON ON THE NRC STAFF. (THESE ARE CROSS-REFERENCED TO CATALOG ENTRY SO THAT CHANGES TO THE DOCUMENT LIBRARY OR THE DATA BASE CAN BE AUTOMATICALLY COMMUNICATED TO PEOPLE INTERESTED IN THE TOPIC.)

OPT. SIZE = 30 MAX. SIZE = 45
OPT. OCCUR. = 3000 MAX. OCCUR. = 6000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

BELONGS TO A NRC S/G ORGANIZATION (HQHF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF TO CATALOG ENTRY (HQHR)
REQUESTS WORK ITEMS (HQNS)
IS RESPONSIBLE FOR MILESTONES (HQSD)
CROSS REF TO JOB TITLE (HQXL)

*DATA ELEMENTS

EMPLOYEE ID (HQ14C3)

EMPLOYEE NAME (HQ9592)

EMPLOYEE NRC MAIL STOP (HQ1980)

AUTHOR (PT)
AUTHORS (PTS)

THE PERSON OR AGENCY WHICH AUTHORED THE DOCUMENT

OPT. SIZE = 15 MAX. SIZE = 30
OPT. OCCUR. = 2500 MAX. OCCUR. = 5000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF TO DOCUMENT (PTLM)

*DATA ELEMENTS

AUTHORS NAME (PT4268)

DOCUMENT (LM)
DOCUMENTS (LMS)

A BOOK, MANUAL, PAPER, OR OTHER DOCUMENT AVAILABLE TO NRC STAFF.

OPT. SIZE = 60 MAX. SIZE = 160
OPT. OCCUR. = 5000 MAX. OCCUR. = 15000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF TO CATALOG ENTRY (LMHR)
HAS S/G INFO INDICES (LMLX)
CROSS REF TO AUTHOR (LMPT)

*DATA ELEMENTS

DOCUMENT PUBLICATION ID (LM9746)

DOCUMENT DATE (LM0121)

CONSTRUCT ENTRY DATE (LM2618)

MICROFICHE NUMBER (LM4323)

MICROFICHE LOCATION (LM8591)

ABSTRACT SUBMISSION DATE (LM1584)

SECURITY LEVEL OF DOCUMENT (LM4290)

SECURITY LEVEL OF ABSTRACT (LM3432)

ABSTRACT TEXT (LM7854)

PASSWORD (LM5214)

NUMBER OF PAGES IN DOCUMENT (LM5181.

ACCESSION NUMBER (LM1254.
ASSIGNED BY DCS AS UNIQUE IDENTIFIER IN THE SYSTEM

(CONT)

DOCUMENT TITLE (LM7050)

DOCUMENT TYPE (LM3157)

DOCUMENT CODE (LM5951)

S/G INFO INDEX (LX)
S/G INFO INDICES (LXS)

PAGE-LEVEL REFERENCE TO A DOCUMENT CONTAINING SAFEGUARDS-RELATED INFORMATION.

OPT. SIZE = 50 MAX. SIZE = 100
OPT. OCCUR. = 10000 MAX. OCCUR. = 30000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

INDEXES DOCUMENT (LXLM)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

ENTRY DATE (LX4609)
WHO ENTERED (LX9636)
PAGE NUMBER (LX0308)
MICROFICHE NUMBER (LX3685)
MICROFICHE LOCATION (LX8294)
SUBJECT TEXT (LX1375)

ISIS DDR PART II DATA BASE COMPOSITION

WORK ITEM TYPE (GV)
WORK ITEM TYPES (GVS)

GENERAL CLASSIFICATION OF WORK ITEMS

OPT. SIZE = 40 MAX. SIZE = 80
OPT. OCCUR. = 100 MAX. OCCUR. = 400

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS MILESTONE TYPES (GVDT)
HAS WORK ITEMS (GVNS)

*DATA ELEMENTS

W/A ITEM TYPE TITLE (GV5236)

W/A ITEM TYPE ID (GV1650)

W/A ITEM TYPE DESCRIPTION (GV5280)

TYPICAL SENDING OFFICE (GV3014)

TYPICAL RECEIVING OFFICE (GV7623)

MILESTONE TYPE (DT)
MILESTONE TYPES (DTS)

A GENERAL CLASSIFICATION GOVERNING MILESTONES

OPT. SIZE = 35 MAX. SIZE = 70
OPT. OCCUR. = 50 MAX. OCCUR. = 200

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

BELONGS TO WORK ITEM TYPE (DTGV .

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS MILESTONES (DTSD

*DATA ELEMENTS

MILESTONE TYPE TITLE (DT7502

MILESTONE TYPE ID (DT3938.

MILESTONE TYPE DESCRIPTION (DT5742.

TYPICAL NUMBER OF MANHOURS REQUIRED (DT0418.

TYPICAL # OF WORKING DAYS REQUIRED (DT7194

WORK ITEM (NS)
WORK ITEMS (NSS)

A UNIT OF WORK REQUESTED BY AN NRC EMPLOYEE

OPT. SIZE = 90 MAX. SIZE = 150
OPT. OCCUR. = 1500 MAX. OCCUR. = 4500

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

BELONGS TO WORK ITEM TYPE (NSGV)
REQUESTED BY NRC EMPLOYEE (NSHQ)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS MILESTONES (NSSD)

*DATA ELEMENTS

SENDING OFFICE CODE (NS2310)

RECEIVING OFFICE CODE (NS1782)

ITEM SEQUENCE NUMBER (NS6468)
SENDING OFFICE CODE + RECEIVING OFFICE CODE + SEQ NUMBER =
UNIQUE ID FOR W/A ITEM

PRIORITY (CODE) (NS6231)

FACILITY (NS6919)

INITIAL ENTRY DATE (NS0902)

REQUESTED COMPLETION DATE (NS9361)

REQUESTOR (NS2376)

W/A ITEM DESCRIPTION (NS6391)

ACTUAL COMPLETION DATE (NS7469)

W/A ITEM CLOSE OUT CODE (NS8470)

MILESTONE (SD)
MILESTONES (SDS)

A STEP WITHIN A WORK ITEM WHICH AN INDIVIDUAL IS REQUIRED TO ACCOMPLISH

OPT. SIZE = 25 MAX. SIZE = 35
OPT. OCCUR. = 5000 MAX. OCCUR. = 15000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

BELONGS TO MILESTONE TYPE (SDDT)
BELONGS TO A WORK ITEM (SDNS)
MAY BE RESPONSIBILITY OF NRC EMPLOYEE (SDHQ)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

MILESTONE ID (SD1716.

EXPECTED COMPLETION DATE (SD8745.

ESTIMATED NUMBER OF MANHOURS REQUIRED (SD4895.

ACTUAL COMPLETION DATE (SD4015.

ACTUAL NUMBER OF MANHOURS USED (SD1507.

CATALOG ENTRY (HR)
CATALOG ENTRIES (HRS)

A SPECIALIZED TECHNICAL INFORMATION SYSTEM TOOL WHEREBY A HIERARCHY CAN BE DEFINED AS REQUIRED. (ALL CONSTRUCTS MARKED "CTLG" ARE REALLY HIERARCHIES DEFINED BY NRC DYNAMICALLY DURING THE SYSTEM LIFETIME. THE ENTRIES IN THIS CATALOG CAN BE THOUGHT OF AS TOPICS AND, AS SHOWN, ARE CROSS-REFERENCED TO DOCUMENTS AS DESIRED. TOPICS CAN ALSO BE DEFINED WHICH ARE NOT KEYED TO CATLG-TYPE CONSTRUCTS IN ORDER TO CLASSIFY DOCUMENTS.)

*NOTE: HAS SUBCONSTRUCT REGULATION
HAS SUBCONSTRUCT NRC S/G ORGANIZATION
HAS SUBCONSTRUCT JOB TITLE
HAS SUBCONSTRUCT LICENSE TEXT

OPT. SIZE = 30 MAX. SIZE = 60
OPT. OCCUR. = 15600 MAX. OCCUR. = 47000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

CROSS REF TO NRC EMPLOYEE (HRHQ)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF TO DOCUMENT (HRLM)

*DATA ELEMENTS

ENTRY IDENTIFICATION (HR8635)
THE IDENTIFICATION OF THE ENTRY BEING MADE IN THE CATALOG

ENTRY TITLE (HR6765)
THE TITLE OF THE ENTRY BEING MADE IN THE CATALOG

COMPONENT TYPE (XW)
COMPONENT TYPES (XWS)

A CLASSIFICATION OF COMPONENTS BY TYPE AND FUNCTION.

OPT. SIZE = 6 MAX. SIZE = 12
OPT. OCCUR. = 20 MAX. OCCUR. = 50

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

REQUIRES COMPONENT PARAM SETS (XWWN)

*DATA ELEMENTS

IDENTITY CODE OF COMPONENT TYPE (XW2040)

PERSONNEL TYPE (BT)
PERSONNEL TYPES (BTS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

PERSONNEL TYPE (BT3454)
VALUES INCLUDE:
- GUARD
- MATL ACCESS PERSONNEL
- MAINTANCE PERSONNEL
- MANAGERS
- MATL RECORDS ACCESS PERSONNEL
- DRIVER

PERSONNEL FUNCTION (BT3289)
VALUES INCLUDE:
- SITE PROTECTION
- SITE MAINTENANCE
- SITE OPERATION
- SITE MANAGEMENT
- OFF-SITE FUNCTION

VEHICLE TYPE (DZ)
VEHICLE TYPES (DZS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF VEHICLE (DZ0814)
POSSIBLE VALUES:
- ON SITE VEHICLES
- TRACTORS
- PICK-UP TRUCKS
- SEDAN
- SPECIAL TRACTORS
- OTHER MODE

VEHICLE FUNCTION (DZ7821)
POSSIBLE VALUES:
- TRANSFER OF MATL IN PROCESS
- SITE SECURITY PERSONNEL USE
- SITE PERSONNEL USE
- TRANSPORT ESCORT
- TRANSPORT OF LEU
- TRANSPORT OF HEU/PU
- TRANSPORT OF SM
- TRANSPORT OF SPENT FUEL

CONTAINER TYPE (ZN)
CONTAINER TYPES (ZNS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF CONTAINERS (ZN1430)
POSSIBLE VALUES:
- TRAILERS-ROAD OR RAIL
- CASK-ROAD,AIR,SHIP,RAIL,OR STORAGE
- PIG-ROAD,AIR,SHIP,RAIL,OR STORAGE
- BARREL-ROAD,AIR,SHIP,RAIL,OR STORAGE
- VAULT-ROAD,AIR,SHIP,RAIL,OR STORAGE

CONTAINER FUNCTION (ZN1364)
POSSIBLE VALUES:
- TRANSFER OF MATL IN PROCESS
- TRANSPORT OF LEU
- TRANSPORT OF HEU/PU
- TRANSPORT OF SM
- TRANSPORT OF SPENT FUEL
- STORAGE ON SITE
- WASTE STORAGE

MONITOR/ALARM TYPE (VK)
MONITOR/ALARM TYPES (VKS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPES OF MONITERS/INTRUSION ALARMS (VK8679)
POSSIBLE VALUES:
- ELECTRIC FIELD MONITORING
- MAGNETIC COIL MONITORING
- GAMMA COUNTERS MONITORING
- X-RAY MONITORING
- PERSONAL SEARCH MONITORING
- NEUTRON INTERREGATION MONITORING
- ACCOUSTIC ALARM
- TRIP WIRE ALARM
- SEISMIC ALARM
- MICRO WAVE ALARM
- CCTV ALARM
- MECHANICAL DEFORMATION ALARM
- PRESSURE MATS ALARM
- IR ALARM
- K-9 ALARM

MONITOR/ALARM FUNCTIONS (VK1573)
POSSIBLE VALUES:
- RADIATION MONITORING
- METAL DETECTION MONITORING
- EXPLOSIVES DETECTION MONITORING
- SNM DETECTION MONITORING
- FIRE ALARM
- ADVERSARY DETECTION ALARMS
- SURVEILLANCE ALARMS
- VIBRATION DETECTION ALARMS
- PROXIMITY DETECTION ALARMS

ASSAY TECHNIQUE TYPE (QS)
ASSAY TECHNIQUE TYPES (QSS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF ASSAY TECHNIQUE (QS8503)
- SPECTROSCOPY
- MASS. SPECTROMETERS
- RADIO-CHEMICAL ANALYSIS
- SPECTRO-CHEMICAL ANALYSIS
- NUCLEAR ANALYSIS
- SCALES
- NEUTRON COUNTING
- CALORIMETRY
- CHEMICAL ANALYSIS
- ETC

FUNCTION OF ASSAY TECHNIQUE (QS4081)
POSSIBLE VALUES:
- PRODUCT ASSAY
- PROCESS ASSAY
- STORAGE ASSAY
- WASTE ASSAY
- OTHER

COMMUNICATION TYPE (FG)
COMMUNICATION TYPES (FGS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF COMMUNICATION (FG8690)
- COMMERCIAL PHONE
- PRIVATE LINE
- UHF
- VHF
- HF
- CB
- AUTOMAT[illegible]TALING SYSTEM

FUNCTION OF COM[illegible]ICATION (FG8017)
POSSIBLE VALUES
- ALARM SIGNALLING
- ON/OFF SITE COMMUNICATIONS
- LLEA COMMUNICATION

G/S COMPONENT TYPE (PR)
G/S COMPONENT TYPES (PRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF GUARD STATION EQUIPMENT (PR01+3)
- ANNUNCIATORS
- EVENT RECORDERS
- VIDEO TAPE RECORDERS
- VIDEO MONITORS

FUNCTION OF GUARD STATION EQUIPMENT (PR7348)
POSSIBLE VALUES:
- AUDIBLE/VISIBLE ALARM
- RECORD OCCURANCES
- READ-OUT

PERSONNEL ID TYPE (PW)
PERSONNEL ID TYPES (PWS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF PERSONNEL IDENTIFIER (PW4059)
POSSIBLE VALUES:
- FINGERPRINT
- HAND GEOMETRY
- SPEECH IDENTIFIER
- SIGNATURE VERIFICATION
- PHOTO BADGE
- BADGE COMPARISON

FUNCTION OF PERSONNEL IDENTIFIER (PW7095)
- PERSONNEL VERIFICATION

BARRIER TYPE (SW)
BARRIER TYPES (SWS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF BARRIERS (SW7931)
POSSIBLE VALUES:
- DOORS
- GATE
- FENCE
- WALL
- WINDOW
- CEILING
- FLOOR

FUNCTION OF BARRIERS (SW0275)
- LIMITED ACCESS
- PREVENT ACCESS

LOCK TYPE (WP)
LOCK TYPES (WPS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF LOCK (WP2585)
POSSIBLE VALUES:
- COMBINATION
- CARD SYSTEM
- ELECTRICALLY OPENED
- PNEUMATICALLY OPERATED
- KEY
- BOLT
- CYPHER
- TIME
- ETC.

FUNCTION OF LOCK (WP9218)
- ACCESS CONTROL
- ACCESS DELAY
- PERSONNEL ACCOUNTING

SEAL TYPE (TX)
SEAL TYPES (TXS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF SEAL (TX3025)
POSSIBLE VALUES:
- PASSIVE WIRE
- ACTIVE WIRE
- FOILS
- PRESSURE

FUNCTION OF SEAL (TX2904)
- TAMPER PROOF
- TAMPER INDICATING

SURVEILLANCE TYPE (JB)
SURVEILLANCE TYPES (JBS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF SURVEILLANCE (JB7810)
POSSIBLE VALUES:
- THERMAL IMAGING
- VIDEO
- LAMPS
- IMAGE INTENSIFIER
- IR IMAGING
- MICRO WAVE

FUNCTION OF SURVEILLANCE (JB3751)
- ADVERSARY DETECTION
- ILLUMINATION OF SURVEILLANCE ZONE
- PERIMETER SURVEILLANCE
- AREA
- POINT

WEAPON TYPE (XT)
WEAPON TYPES (XTS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF WEAPON (XT7359)
POSSIBLE VALUES:
- SMALL ARMS
- SEMI-AUTOMATIC
- FULLY AUTOMATIC
- TEAR GAS

FUNCTION OF WEAPON (XT9020)
- CROWD CONTROL
- PLANT/SELF-DEFENSE

MAT ACCTG EQUIPMENT (RZ)
MAT ACCTG EQUIPMENT (RZS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF MATL ACCTG EQUIPMENT (RZ9031)
POSSIBLE VALUES INCLUDE
BALANCE
-STRAIN GAGE
-LOAD CELL
-PRESSURE PROBE
-COULOMETER
-OPTICAL SPECTROMETER
-MASS SPECTROMETER
-GAMMA RAY SPECTROMETER
-EMISSION SPECTROMETER
-COLORIMETER
-CALORIMETER
-SPECTROPHOTOMETER
-X-RAY FLUORESCENCEMETER
-WET CHEMISTRY TECHNIQUE
-OTHER

FUNCTION OF MATL ACCTG EQUIPMENT (RZ2486)
IF WET CHEMISTRY SPECIFY OXIDATION REDUCTION OR ION EXCHANGE
MATERIAL AND WASH REAGENTS METHOD, TITRATION REAGENTS
TEST

COMPONENT PARAM SET (WN)
COMPONENT PARAM SETS (WNS)

BRAND/MODEL DEPENDENT INFORMATION ABOUT SPECIFIC S/G RELATED COMPONENTS.

OPT. SIZE = 400 MAX. SIZE = 1000
OPT. OCCUR. = 2000 MAX. OCCUR. = 5000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLIES TO COMPONENT TYPE (WNXW)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

DEFINES PARAM SETS OF COMPONENT GROUPS (WNZP)

*DATA ELEMENTS

TYPE CODE OF COMPONENT PARAM SET (WN2513)
BRAND (WN1628)
MODEL (WN7216)
REFERENCE TO SPECS (WN9174)
AVAILABILITY-SPECS (WN8624)
DATE OF INTRODUCTION (WN5159)
SPECIFICATIONS ABSTRACT (WN3106)

LICENSE TYPE (VB)
LICENSE TYPES (VBS)

A CLASSIFICATION OF LICENSES FOR PURPOSES OF PLANNING, EVALUATION AND INSPECTION, INVOLVING TYPE OF FACILITY TO WHICH LICENSE APPLIES.

LESS THAN 20 TYPES EXPECTED, SUCH AS : LWR, HTGR, RESEARCH REACTORS, FUEL CYCLE FACILITY, IMPORT, EXPORT, SNM POSSESSION, ETC.

OPT. SIZE = 50 MAX. SIZE = 100
OPT. OCCUR. = 20 MAX. OCCUR. = 50

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS PHASES (VBKV)

*DATA ELEMENTS

LICENSE TYPE ID (VB4350)
FIVE DIGIT CODE

TITLE OF LICENSE TYPE (VB0374)
SEE SERVICE MODULE LICSTAT FORM 3 FOR A LIST OF TYPES OF LICENSES

PHASE (KV)
PHASES (KVS)

A POINT IN THE ENTIRE LIFE CYCLE OF A FACILITY, SUCH AS PRE-CONSTRUCTION, CONSTRUCTION, PRE-OPERATION, START-UP, OPERATIONAL, DECOMMISSIONING, ACTIVE, INACTIVE.

OPT. SIZE = 50 MAX. SIZE = 100
OPT. OCCUR. = 15 MAX. OCCUR. = 25

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

FURTHER DEFINES LICENSE TYPE (KVVB)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS LICENSES (KVNH)

*DATA ELEMENTS

PHASE IDENTITY (KV1819)

TITLE OF PHASE (KV3597)

INSPECTION PROGRAM (LN)
INSPECTION PROGRAMS (LNS)

A MEANS OF CATEGORIZING INSPECTIONS BY FACILITY TYPE, MANUAL CHAPTER, OR PROGRAM

OPT. SIZE = 30 MAX. SIZE = 50
OPT. OCCUR. = 20 MAX. OCCUR. = 50

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS INSP MOD ASSIGNMENTS (LNTF)

*DATA ELEMENTS

MANUAL CHAPTER NUMBER (LN0187)
4 - DIGIT CODE

INSPECTION PROGRAM TITLE (LN6523)

INSP MOD ASSIGNMENT (TF)
INSP MOD ASSIGNMENTS (TFS)

THE DEFINITION OF A PROCESS WHICH MAY TAKE PLACE OVER A SERIES OF INSPECTIONS WHEREBY APPROPRIATE ITEMS ARE TO BE INSPECTED IN ACCORDANCE WITH A SINGLE INSPECTION PROGRAM

OPT. SIZE = 20 MAX. SIZE = 40
OPT. OCCUR. = 1000 MAX. OCCUR. = 2000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS A MEMBER OF INSPECTION PROGRAM (TFLN)
IS A MEMBER OF LICENSE TEXT (TFZT)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS INSPECTION ITEMS (TFDN)
HAS MOD INSP OCCURRENCES (TFKG)

*DATA ELEMENTS

MODULE ID NUMBER (TF8712)
- UNIQUE ID W/IN ISIS FOR OI&E MANUAL CHAPTER, INSPECTION PROGRAM, PROCEDURE SEQUENCE

FREQUENCY OF REQUIRED INSPECTIONS (TF8195)

INSPECTION ITEM (DN)
INSPECTION ITEMS (DNS)

THE SMALLEST UNIT OF SITE SPECIFIC PLANNING FOR AN INSPECTION DETAILING THE ITEM TO BE INSPECTED AND THE PERFORMANCE CRITERIA IT MUST MEET

*NOTE:
- FOR EACH MODULE, THE SMALLEST LICENSEE-SPECIFIC ITEMS, OR CONDITIONS, TO LOOK AT IN INSPECTION
- ANY LICENSE SPECIFIC ITEM INSPECTED TO ENSURE COMPLIANCE W/PROCEDURE REQUIREMENTS & GUIDANCE

OPT. SIZE = 1000 MAX. SIZE = 2000
OPT. OCCUR. = 5000 MAX. OCCUR. = 50000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS A MEMBER OF INSP MOD ASSIGNMENT (DNTF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS INSP OBSERVATIONS (DNLT)

*DATA ELEMENTS

INSPECTION ITEM IDENTIFICATION (DN8547)
- TEXT

INSPECTION ITEM DESCRIPTION (DN3201)
- TEXTUAL DESCRIPTION OF THE SPECIFIC ITEM TO BE INSPECTED/ PROCEDURE TO BE CONDUCTED

INSPECTION ITEM PERFORMANCE CRITERIA (DN2794)

DATE EFFECTIVE (DN1342)

DATE TERMINATED (DN4213)

ITEM SOURCE (DN7920)
WHY THE ITEM WAS ADDED AS AN INSPECTION ITEM - IE NOTICE, OBSERVED FROM PREV. INSPECTION, LICENSE CONDITION

MOD INSP OCCURRENCE (KG)
MOD INSP OCCURRENCES (KGS)

THE OCCURRENCE OF THE INSPECTION OF AN INSPECTION MODULE.
IF THE LATEST IS NOT COMPLETE, DATA ELEMENTS SUCH AS PERCENT
COMPLETE WILL INDICATE THE AMOUNT OF WORK REMAINING.

OPT. SIZE = 40 MAX. SIZE = 50
OPT. OCCUR. = 10000(5YRS) MAX. OCCUR. = 20000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

BELONGS TO INSP MOD ASSIGNMENT (KGTF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS MODULE INSP UNITS (KGCG)

*DATA ELEMENTS

OCCURRENCE ID (KG1490)

NUMBER OF MODULE REQUIRING FOLLOW-UP (KG5203)
- THIS DATA ELEMENT IS ONLY SUPPLIED WHEN THE
CORRESPONDING MODULE NUMBER IS 927018

STATUS (KG1826)
- BLANK - MODULE IS TO BE FUTHER INSPECTED
- C - CLOSED BECAUSE:
1) 100% OF WORK EFFORT HAS BEEN COMPLETED
2) OPPORTUNITY TO COMPLETE 100% OF WORK EFFORT
BEFORE NEXT INSPECTION PERIOD HAS PASSED
- CURRENT STATUS - NO HISTORY OF STATUS IS KEPT

MODULE INSPECTION START DATE (KG9295)

DATE OF INSPECTION COMPLETION (KG0385)

MANHOURS EXPENDED THUS FAR ON MODULE (KG7163)
CALCULATED RESULT
CUMULATION OF MANHOURS THIS TRIP

N/C DEVIATION (VX)
N/C DEVIATIONS (VXS)

RECORD OF A CITED NONCOMPLIANCE OR DEVIATION (CURRENTLY THE NRC 766S FORM).

OPT. SIZE = 850 MAX. SIZE = 2500
OPT. OCCUR. = 1000(YR) MAX. OCCUR. = 1300(YR)

#RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLY TO MODULE INSP UNIT (VXCG)
IS DEFINED BY N/C CODE (VXBN)

#RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS INSP OBSERVATIONS (VXLT)
RESULTS IN EVENT DOCUMENTATIONS (VXMN)

#DATA ELEMENTS

TYPE OF FINDING (VX6732)
POSSIBLE VALUES:
- NONCOMPLIANCE
- NONCOMPLIANCE (NOT CITED)
(LICESEE IDENTIFIED ITEMS)
- DEVIATIONS

NC DEVIATION CODE SUFFIX (VX9427)

CAUSE CODE (VX0924)

PROCEDURE CODE (VX1710)

SEVERITY CODE (VX1820)
DEFICIENCY
VIOLATION
INFRACTION

FUNCTIONAL AREA CODE (VX2457)

SPECIFIC GUIDE OR STANDARD (VX3828)
10 CHARACTERS
ENTER THE NUMBER OR OTHER SYMBOL THAT IDENTIFIES THE SPECIFIC SUBSET OF THE CODE, GUIDE, OR STANDARD NOTED IN THE ID BLOCK

CONT1

HOW ITEM IDENTIFIED (VX2398)
VALUES ARE:
L - LICENSEE
I - INSPECTOR
O - OTHER
1 CHARACTER CODE

CONSEQUENCE CODE (VX8701)
VALUES ARE:
A - CAUSED OR CONSTITUTED ACTUAL OCCURRENCE
P - HAD POTENTIAL TO RESULT IN ACTUAL OCCURRENCE
N - DID NOT HAVE POTENTIAL TO RESULT IN ACTUAL OCCURRENCE
1 CHAR. CODE

EXEMPT INFORMATION (VX8151)
Y/N - IN THOSE CASES WHERE DATA TO BE INCLUDED IN THE TEXT DEALS WITH THOSE AREAS WHICH ARE EXEMPT FROM PUBLIC DISCLOSURE UNDER 10CFR 2.790.

ADDTIONAL UNITS (VX3102)
4 CHARACTERS
1 - ENTER M
2 - OTHER UNIT # CHARGED WITH SAME N/C
3 - OTHER UNIT # CHARGED WITH SAME N/C
4 - OTHER UNIT # CHARGED WITH SAME N/C
SEE I&E MANUAL CHAPTER MC-0535-207

TEXT (VX7601)
2400 CHARACTERS OF FREE-FORM TEXT-
REFERENCE I&E MANUAL CHAPTER MC-0535-203

CORRECTIVE ACTION STATUS (VX2150)

MODULE INSP UNIT (CG)
MODULE INSP UNITS (CGS)

ALL ACTIVITY DURING A GIVEN INSPECTION WHICH IS ASSOCIATED WITH A GIVEN MODULE INSPECTION OCCURRENCE

OPT. SIZE = 20 MAX. SIZE = 20
OPT. OCCUR. = 75000(5-YR) MAX. OCCUR. = 100000(5-YR)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS A MEMBER OF MOD INSP OCCURRENCE (CGKG)
APPLIES TO INSP/INVEST (CGWZ)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS INSP OBSERVATIONS (CGLT)
HAS N/C DEVIATIONS (CGVX)

*DATA ELEMENTS

% COMPLETE TO DATE (CG5929)

MAN HOURS EXPENDED IN THIS INSPECTION (CG7381)
REFERS TO MODULE NUMBER FOUND IN MOD. INSP. ASSIGN.

LINE NUMBER (CG8063)

INSP OBSERVATION (LT)
INSP OBSERVATIONS (LTS)

THE RESULT OF THE INSPECTION OF ONE INSPECTION ITEM

OPT. SIZE = 500 MAX. SIZE = 1000
OPT. OCCUR. = 150000(5YRS) MAX. OCCUR. = 200000(5YRS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS A MEMBER OF MODULE INSP UNIT (LTCG)
IS A MEMBER OF INSPECTION ITEM (LTDN)
IS A MEMBER OF N/C DEVIATION (LTVX)
MAY BE A MEMBER OF COMPONENT (LTSC)
MAY BE A MEMBER OF COMPONENT GROUP (LTZP)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

OBSERVATION DATE (LT3227)

OBSERVATION TEXT (LT7513)
800 CHARACTER TEXTUAL COMMENT-
IE ITEM COULD BE IN COMPLIANCE, BUT THERE IS SOMETHING
THAT ISN'T QUITE RIGHT

OBSERVATION FINDING (LT4587)
INDICATES:
1 - ITEM PASSED (IE, NOTHING AMISS) / NOTE:
2 - ITEM NOT PASSED (SOMETHING AMISS)/ NOT EQUIVALENT TO
NON-COMPLIANCE
3 - ITEM NOT INSPECTED

INFORMATION FOR SUBSEQUENT INSPECTION (LT2684)
FLAG Y/N AS TO WHETHER OR NOT THE "INSP OBSERVATION"
SHOULD BE PRINTED ON THE NEXT INSPECTION PLAN

REGULATION (VF)
REGULATIONS (VFS)

THE 10CFR XXX REGULATIONS

*NOTE: IS A SUBCONSTRUCT OF CATALOG ENTRIES

OPT. SIZE = 100 MAX. SIZE = 200
OPT. OCCUR. = 100 MAX. OCCUR. = 800

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

IDENTIFIES REQUIREMENT FOR N/C CODES (VFBN)

*DATA ELEMENTS

REGULATION IDENTIFICATION (VF7326)

SECTION TITLE (VF5852)

STATUS CODE (VF1793)

FEDERAL REGULATION DATE (VF7018)

APPROVAL DATE (VF7634)

EFFECTIVE DATE (VF4152)

TERMINATION DATE (VF0407)

MICROFICHE REFERENCE NUMBER (VF2134)

N/C CODE (BN)
N/C CODES (BNS)

CODE ESTABLISHED BY OIE FOR IDENTIFYING SPECIFIC TYPES OF NON-COMPLIANCEES OR DEVIATIONS IN ACCORDANCE WITH 10CFR REQUIREMENTS

OPT. SIZE = 50 MAX. SIZE = 100
OPT. OCCUR. = 100 MAX. OCCUR. = 800

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS REQUIRED BY REGULATION (BNVF)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

DEFINES N/C DEVIATION (BNVX)
CROSS REF LICENSE TEXT (BNZT)

*DATA ELEMENTS

CODE ID (BN3909)

I & E ASSIGNED SEVERITY CODE (BN1534)
DEFICIENCY
VIOLATION
INFRACTION

DESCRIPTION (BN1555)

DATE EFFECTIVE (BN4129)

DATE TERMINATED (BN3579)

COMPONENT GROUP (ZP)
COMPONENT GROUPS (ZPS)

A GROUP OF INTERCHANGEABLE COMPONENTS.

OPT. SIZE = 5 MAX. SIZE = 10
OPT. OCCUR. = 2500 MAX. OCCUR. = 5000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

HAS COMPONENT PARAM SETS (ZPWN)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

HAS COMPONENTS (ZPSC)
MAY HAVE INSP OBSERVATIONS (ZPLT)

*DATA ELEMENTS

IDENTITY CODE OF COMPONENT GROUP (ZP3139)

COMPONENT S/G APPLICATION (ZP2871)
- EACH COMPONENT WHICH IS ALLOCATED TO A SITE MUST BE ASSIGNED A S/G FUNCTION. THE POSSIBLE VALUES ARE:
  - PHYSICAL SECURITY COMPONENTS
  - MATERIAL CONTROL COMPONENTS
  - MATERIAL ACCOUNTING COMPONENTS
  - SOME COMBINATION OF THE ABOVE

COMPONENT (SC)
COMPONENTS (SCS)

AN ITEM ON HAND, WHICH IS OF INTEREST TO SAFEGUARDS, SUCH AS A BARRIER, A GUARD, A COMMUNICATION DEVICE, AN ALARM SYSTEM OR A WEAPON.

OPT. SIZE = 150 MAX. SIZE = 500
OPT. OCCUR. = 2500 MAX. OCCUR. = 5000

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

BELONG TO COMPONENT GROUPS (SCZP)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF EVENTS (SCFR)
MAY HAVE INSP OBSERVATIONS (SCLT)

*DATA ELEMENTS

TYPE OF COMPONENT (SC2919)

COMPONENT ID (SC9999)

EQUIPMENT COMPONENT (KP)
EQUIPMENT COMPONENTS (KPS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

SERIAL NUMBER (KP6413)

DATE OF INSTALLATION (KP9130)

DATE OF LAST MAINTENANCE (KP6710)

DATE OF LAST CALIBRATION (KP3795)

DATE OF LAST FAILURE (KP4510)

COMPONENT OWNER (KP6490)

ICC IDENTIFICATION (KP0044)

MAT ACCTG COMPONENT (TQ)
MAT ACCTG COMPONENTS (TQS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

MAY HAVE ELEMENT WEIGHT (TQRS)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

SERIAL NUMBER (TQ3377)

MEASUREMENT STANDARD (TQ3388)

FREQUENCY OF CALIBRATION (TQ3399)

SIZE OF SAMPLE NECESSARY (TQ3443)

DATE OF INSTALLATION (TQ1551)

INSP/INVESTIGATION (WZ)
INSP/INVESTIGATIONS (WZS)

AS DEFINED BY CURRENT OPERATIONS, THE INSP/INVEST REPORT CONSTRUCT IS THE RECORD OF A SINGLE 766 FORM. IT IS THE RECORD OF THE OCCURRENCE OF AN ON-SITE INSPECTION/INVESTIGATION.

OPT. SIZE = 200 MAX. SIZE = 300
OPT. OCCUR. = 15000(5-YR) MAX. OCCUR. = 20000(5-YR)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

IS REFERENCED TO LICENSE (WZNH)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

MAY RESULT IN EVENT DOCUMENTATION (WZMN)
APPLIES TO MOD INSP UNIT (WZCG)

*DATA ELEMENTS

FACILITY NAME (FROM 766) (WZ0809)

LICENSEE/VENDOR (FROM 766) (WZ2849)

REPORT NUMBER (WZ7964)
- YY##

INSPECTOR/INVESTIGATOR NAME (WZ3630)
- ALLOW FOR TEN NAMES

REVIEWER'S NAME (WZ6358)

PRINCIPAL INSPECTOR/INVESTIGATOR NAME (WZ4818)

FROM DATE (INQ/INVEST/INSP) (WZ1738)
- MMDDYY START DATE OF ACTIVITY

TO DATE (INQ/INVEST/INSP) (WZ3234)
- MMDDYY END DATE OF ACTIVITY

REGION CONDUCTING ACTIVITY (WZ8426)
- REGION #

CONTI

ACTIVITY CODE (WZ8305)
- 01-ROUTINE (FEE)
- 02-ROUTINE (NC FEE)
- •
- •
- •
- 13-IMPORT
- 14-INQUIRY
- 15-INVEST

DATE 766 ENTERED INTO COMPUTER FILE (WZ6721)
- MM YY

DCS REFERENCE TO TEXTUAL REPORT (WZ6094)

INSPECTION (WX)
INSPECTIONS (WXS)

AS APPLIES TO THE CURRENT 766 FORM, AN INSPECTION MAY BE CLASSED AS ROUTINE (ACTIVITY CODES 01, 02, 09, 10) OR NON-ROUTINE (ACTIVITY CODES 03, 04, 05, 06, 07, 08, 11, 12, AND 13).

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

ANNOUNCED/UNANNOUNCED CODE-ROUTINE (WX6369)

INSPECTION NOTIFICATION CODE (WX8129)
- 1-591
- 2-REG OFFICE LETTER
- 3-REF TO H.Q. FOR ACTION
- 4-REG LETTER & H.Q. ACTION

INSPECTION FINDINGS (WX7029)
- 1-CLEAR
- 2-N/C
- 3-DEV.
- 4-N/C & DEV.

N/C ITEMS IN LICENSEE LETTER (ROUTINE) (WX8599)
- INDICATES HOW MANY 766S FORMS W/ BOX A CHECKED IN # A SHOULD BE FOUND

DEVIATIONS IN LICENSEE LETTER (ROUTINE (WX0209)
- INDICATES HOW MANY 766S FORMS W/ BOX B CHECKED IN # A CHECKED SHOULD BE FOUND

OF LICENSEE ID ITEMS DURING ROUT INSP (WX2640)
- INDICATES # OF 766S FORMS W/ BOX C IN # A CHECKED

OF LICENSEE EVENTS ON SITE DURING INSP (WX6589)

CONTI

DATE OF LETTER/591 ISSUED TO LICENSEE (WX1936)
- MMDDYY

DATE REPORT SENT TO HQ FOR ENFOR ACTION (WX1309)
- MMDDYY
FOR ENFORCEMENT ACTION AFTER ROUTINE INSPECTION

HQ ACTION CODE ON REGIONS REQUEST (WX3465)
ENTER ONLY IF HQS ACTION REQUIRED (H-3 OR H-4 CHECKED)
01-NO ACTION REQUIRED
02-LETTER ISSUED TO LICENSEE
03-PART 2 NOTICE ISSUED TO LICENSEE
04-ORDER ISSUED
05-PROPOSED CIVIL PENALTY ISSUED
06-REFERED TO LICENSING FOR RESOLUTION
07-REFERED TO REGION FOR CLOSEOUT
08-OTHER REASON

DATE HQS ENFORCEMENT NOTIFICATION ISSUED (WX4620)
ONLY IF BLOCK P IS COMPLETED
- MMDDYY (INCLUDE LEADING ZEROS)

CIVIL PENALTY ISSUED BY HQS (WX1672)
CHECK ( ) IF NOTICE OF PROPOSED IMPOSITION OF
CIVIL PENALTY WAS ISSUED

INVESTIGATION (FZ)
INVESTIGATIONS (FZS)

AS APPLIES TO THE CURRENT 766 FORM AN INVESTIGATION SUBCONSTRUCT RESULTS FROM A 766 FORM W/ AN ACTIVITY CODE 15 INVESTIGATION

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

ANNOUNCED/UNANNOUNCED CODE-INVESTIGATION (FZ9460)

INVESTIGATION NOTIFICATION CODE (FZ1353)
1-591
2-REG OFF LETTER
3-REF TO HQ FOR ACTION
4-REG OFF LETTER & HQ ACTION

INVESTIGATION FINDINGS (FZ5357)
1-CLEAR
2-N/C
3-DEV
4-N/C & DEV

OF N/C ITEM IN LICENSEE LETTER (INVEST (FZ6864)

OF DEV IN LICENSEE LETTER (INVEST) (FZ8492)

OF LICENSEE IDENTIFIED DURING INVEST (FZ6479)

OF LICENSEE EVENTS (FZ0715)

DATE OF LETTER/591 ISSUED TO LICENSEE (FZ8371)

DATE REPORT SENT TO HQ FOR ENFOR ACTION (FZ7062)

SUBJECT OF INVESTIGATION CODE (FZ3861)
01-INTERNAL OVEREXPOSURE

CONTI

02-
•
•
25-ABNORMAL OCCUR
26-OTHER

HQS ACTION CODE ON REGIONS REQUEST (FZ5786)
ENTER ONLY IF HQS ACTION REQUIRED (H-3 OR H-4 CHECKED)
01-NO ACTION REQUIRED
02-LETTER ISSUED TO LICENSEE
•
•
•
07-REFERRED TO REGION FOR CLOSEOUT
08-OTHER REASON

DATE HQS ENFORCEMENT NOTIFICATION ISSUED (FZ8734)
ONLY IF BLOCK P COMPLETED
-MMDDYY (INCLUDE LEADING ZEROS)

CIVIL PENALTY ISSUED BY HQS AFTER INVEST (FZ3898)
CHECK ( ) IF NOTICE OF PROPOSED IMPOSITION OF
CIVIL PENALTY ISSUED

INQUIRY (LV)
INQUIRIES (LVS)

AS APPLIES TO THE CURRENT 766 FORM AN INQUIRY SUBCONSTRUCT RESULTS FROM A 766 FORM W/ ACTIVITY CODE 14-INQUIRY

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

ADDITIONAL ACTION REQUIRED (YES/NO) (LV2035)

EVENT (FR)
EVENTS (FRS)

A REPORT THAT SOMETHING HAPPENED, ASSOCIATED WITH A GIVEN COMPONENT (AT A SITE OR DURING A TRANSPORT OCCURRENCE) WHICH IS OUTSIDE THE NORMAL OPERATING RANGE OR LICENSE TERMS AND CONDITIONS OR TECHNICAL SPECIFICATIONS.

OPT. SIZE = 1000 MAX. SIZE = 5000
OPT. OCCUR. = 250(YR) MAX. OCCUR. = 500(YR)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

APPLIES TO EVENT CATEGORY (FRJS
-ONE (ONLY) OF THE FOLLOWING
APPLIES TO TRIP (FRWG
APPLIES TO SITE (FRMX

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

CROSS REF COMPONENT (FRSC
RESULTS IN EVENT DOCUMENTATION (FRMN

*DATA ELEMENTS

EVENT NUMBER (FR3566.
- PROBABLY SHOULD BE ADDED TO CURRENT 766 FORM TO UNIQUELY REFERENCE INSPECTIONS/INVESTIGATIONS/INQUIRIES TO THE EVENT.

SUBSEQUENT ACTION NECESSARY (FR7832.
- YES/NO

EVENT DESCRIPTION (FR2552.
- PARAGRAPH

DATE OF EVENT (FR4455.

TIME OF EVENT (FR3333.

WHO INPUT INFO (FR9900

DATE OF INPUT (FR9669.

TIME OF INPUT (FR9559

EVENT CLOSEOUT DATE

CONTI
(FR4195)

EVENT DOCUMENTATION (MN)
EVENT DOCUMENTATIONS (MNS)

DOCUMENTS RELATING TO EVENTS OR REFERENCES THERETO.
SUBCONSTRUCTS ARE:
PRELIMINARY NOTIFICATION (PN)
INVESTIGATION REPORTS
766S OR INSPECTION REPORTS
LICENSEE REPORTS (LER)
DAILY REPORT
OTHER DOCUMENTATION

OPT. SIZE = 200 MAX. SIZE = 1000
OPT. OCCUR. = 750 MAX. OCCUR. = 1500

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

RESULTS FROM N/C /DEVIATIONS (MNVX)
APPLIES TO LICENSES (MNNH)
MAY INCLUDE INSP/INVESTIGATIONS (MNWZ)
RESULTS FROM EVENTS (MNFR)

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

TYPE OF DOCUMENTATION (MN1155

LICENSEE EVENT REPORT (LG)
LICENSEE EVENT REPORT (LGS)

- EACH LER MUST BE LINKED DIRECTLY TO A LICENSE.

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

LER REPORT NUMBER (LG0104)

EVENT TYPE FROM LER (LG3575)
EVENT TYPE WILL HAVE 4 DIGIT CODE:
- FIRST 2 DIGITS RELATE TO "ABNORMAL" OR "UNUSUAL" EVENT;
- SECOND 2 DIGITS TO OTHER TYPE CODES OF LER INSTRUCTIONS

01 ABNORMAL	-	
02 CONSTRUCTION DEFICIENCY	1	
03 UNUSUAL	1	IF 05, 06, 08
04 ENVIRONMENTAL EVENT	1	THEN ISIS WILL
05 TRANSPORTATION EVENT	1=	STORE THE
06 MISSING LICENSSE MATERIAL	1	WHOLE LER IN
07 LEAKING SOURCE	1	LERSUBCONSTRUCT
08 ACTUAL OR THREATENED SABOTAGE	1	
09 OVER EXPOSURE	-	

EVENT DESCRIPTION (TEXT) (LG1078)

REPORT DATE OF LER (LG759C)

EVENT DATE-FROM LER (LG0319)

REPORT SOURCE-FROM LER (LG7205)

REPORT TYPE-FROM LER (LG3960)

CATEGORY-FROM LER (LG7568)

DISCOVERY DESCRIPTION-FROM LER (LG9075)
TEXT

CONTI

LLEA NOTIFIED (LG4019)

METHOD OF DISCOVERY-FROM LER (LG4301)
CODE
A OPERATIONAL EVENT-SELF EXPLANATORY
B ROUTINE TEST/INSP-SURVEILLANCE TESTS, PREVENTIVE MAINTENANCE TESTS, ANNUAL INSPECTIONS, ETC.
C SPECIAL TEST/INSP-NORMALLY NOTED IN LER DESCRIPTION OF EVENT. NONROUTINE TESTS CONDUCTED ON AN AD HOC BASIS FALL INTO THIS CLASS.
D EXTERNAL SOURCE-SUCH AS NOTIFICATION FROM AEC, SISTER LICENSEE, ETC.

OTHER STATUS (LG9306)
- TEXT WHEN FACILITY STATUS IS 1 (OTHER)

% POWER FROM LER (LG4257)

VIOLATION-FROM LER (LG0572)
- YES/NO

COMPONENT MANUFACTURER-FROM LER (LG9471)
- CODE DATA FROM PROJECTED EXPANSION OF EXHIBIT K, BURGUNDY BOOK

COMPONENT CODE-FROM LER (LG2167)
- CODE DATA FROM PROJECTED EXPANSION OF EXHIBIT 1 OF BURGUNDY BOOK

PRIME COMPONENT SUPPLIER-FROM LER (LG8789)

FACILITY STATUS-FROM LER (LG4697)

SYSTEM CODE-FROM LER (LG3894)

CAUSE-OF-EVENT CODE-FROM LER (LG6831)

FORM OF ACTIVITY RELEASED-FROM LER (LG2596)

CONTENT OF RELEASE-FROM LER (LG6853)

AMOUNT OF ACTIVITY-FROM LER (LG4752)
- TEXT

LOCATION OF RELEASE-FROM LER (LG4862)
- TEXT

NUMBER OF PERSONNEL EXPOSURES-FROM LER (LG1727)

CONTI

TYPE OF PERSONNEL EXPOSURE-FROM LER	(LG7689)
DESCRIPTION OF PERSONNEL EXPOSURE-FROM L - TEXT	(LG2145)
NUMBER OF PERSONNEL INJURIES-FROM LER	(LG3674)
DESCRIPTION OF PERSONNEL INJURIES-FROM L - TEXT	(LG9603)
OFFSITE CONSEQUENCES-FROM LER - TEXT	(LG9713)
TYPE OF LOSS OR DAMAGE TO FACILITY-LER	(LG1760)
DESCRIPTION OF LOSS/DAMAGE TO FACILITY-L - TEXT	(LG6171)
PUBLICITY-FROM LER - TEXT	(LG2464)
ADDITIONAL FACTORS-FROM LER - TEXT	(LG0946)

PN DOCUMENTATION (NQ)
PN DOCUMENTATION (NQS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

PN DATE (NQ5137)

PN NUMBER (NQ7282)

FACILITY(S) (NQ5962)
- TEXT--CAN BE ANY NO. OF FACILITIES W/ THEIR DOCKET NOS. FROM PN

LICENSEE NAME (NQ5775)

SITE (NQ3476)
- FROM PN

SUBJECT (NQ4950)
- 1 LINE OF TEXT FROM PN

EVENT DESCRIPTION (NQ8723)
- TEXT--INCLUDES EVENT DATE, COMPONENT INVOLVED, DESCRIPTION OF EVENT, REGIONS INVOLVED, CURRENCY DATE AND TIME, W/ PHONE NUMBERS, ROUTING LIST
- FROM PN

COMPONENT INVOLVED (NQ8118)

DCS REFERENCE (NQ0781)
- FROM PN

EXPIRATION DATE (NQ0792)
- OF PN

EXPIRATION TIME (NQ3069)

CONTI

- OF PN

STATUS (NQ0033)

EXEMPT FROM PUBLIC DISCLOSURE (NQ2810)
- Y/N
- OF PN

EVENT CORRESPONDENCE (DW)
EVENT CORRESPONDENCES (DWS)

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

DESCRIPTION OF CORRESPONDENCE (DW5016)
- DESCRIPTION OF "OTHER"

TYPE OF CORRESPONDENCE (CODE) (DW5038)
POSSIBLE VALUES:
- IAL
- ENFORCEMENT RESPONCE LETTER
- ENFORCEMENT LETTER
- LETTERS TO & FROM LICENSEE
- OTHER

DATE OF LETTER (DW0231)

WHO GENERATED (DW0517)

DCS REFERENCE (DW6138)

RECIPIENT (DW0748)

EXEMPT FROM PUBLIC DISCLOSURE (DW5698)
- Y/N

INSP/INVEST ACTIVITY (HW)
INSP/INVEST ACTIVITIE (HWS)

TIED TO 766 THEREFORE REFERENCE THAT FOR INSPECTORS INVOLVED, ETC.

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

EXEMPT FROM PUBLIC DISCLOSURE (HW4763)
- Y/N

DATE OF REPORT (HW2343)
- TIED TO 766

DCS REFERENCE (HW1067)
- TIED TO 766

OTHER DOCUMENTATION (HM)
OTHER DOCUMENTATION (HMS)

INCLUDES ANY OTHER THREAT OR OTHER EVENT-RELATED DOCUMENTATION.

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

DCS REFERENCE (HM2733)

DESCRIPTION (HM1930)

DATE OF DOCUMENTATION (HM2809)

SOURCE OF DOCUMENTATION (HM2127)

DAILY REPORT (WK)
DAILY REPORTS (WKS)

REFERENCE TO ANY DAILY REPORT THAT MAKES REFERENCE TO AN EVENT.

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

NONE

*DATA ELEMENTS

DCS REFERENCE (WK0125)

DATE OF REPORT (WK1001)

EVENT CATEGORY (JS)
EVENT CATEGORIES (JSS)

CLASSIFICATION OF REAL EVENTS IN GENERIC TYPES OF SAFEGUARDS-RELATED EVENTS.

OPT. SIZE = 5 MAX. SIZE = 10
OPT. OCCUR. = 100 MAX. OCCUR. = 200

*RELATIONSHIPS TO SUPERIOR CONSTRUCTS:

NONE

*RELATIONSHIPS TO SUBORDINATE CONSTRUCTS:

DEFINES TYPE OF EVENT (JSFR)

*DATA ELEMENTS

EVENT CATEGORY (JS5511)