

# **VERSION DESCRIPTION DOCUMENT FOR THE NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)**

Release 4.9.1

NASA-NEMS-VDD-13

PrISMS Contract

September 28, 2001



National Aeronautics and  
Space Administration

**George C. Marshall Space Flight Center**  
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT FOR THE  
NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)  
RELEASE 4.9.1**

Submitted by

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
GEORGE C. MARSHALL SPACE FLIGHT CENTER  
HUNTSVILLE, ALABAMA

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Approved by

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
GEORGE C. MARSHALL SPACE FLIGHT CENTER  
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## **1. INTRODUCTION**

This Version Description Document (VDD) describes the changes and installation procedures for this release of the NASA Equipment Management System (NEMS). This section identifies the release, describes its purpose, defines its scope, and identifies its contact points.

### **1.1 IDENTIFICATION OF THE RELEASE**

This software release is identified as NEMS, Release 4.9.1 and has an effective release date of September 28, 2001.

### **1.2 PURPOSE OF THE RELEASE**

This release implements modifications for the following Change Control Requests (CCRs):

<u>CCR</u>	<u>Title</u>
298	Date Reconciliation
301	Additional queries for HQ code B
302	Make CAPITALIZATION-AMT a descriptor on NEMS-EQUIPMENT and NEMS-HISTORY files

This release implements modifications necessitated by the following Discrepancy Reports (DRs):

<u>CCR</u>	<u>Title</u>
	None

### **1.3 SCOPE**

This VDD provides the functional and technical user of NEMS with information regarding the content, status, and structure of Release 4.9.1, including the following:

- Changes implemented since Release 4.9;
- Validation procedures to ensure the reliability of release changes;
- References to other documentation affected by this release;
- Detailed software installation instructions.

No waivers are associated with this release.

### **1.4 CONTACT POINTS**

Sustaining Engineering for NEMS is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the functional and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (Use following Key Words: SESAAS & NEMS)

Telephone: (256) 544-6673  
Email: [neal.cantrell@msfc.nasa.gov](mailto:neal.cantrell@msfc.nasa.gov)  
FAX: (256) 544-1836

## **2. FUNCTIONAL INFORMATION**

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

### **2.1 FUNCTIONAL CHANGES**

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Instructions, describes all Software PREDICT changes related to this release.

### **2.2 FUNCTIONAL INTERFACES**

This section is not applicable for this release.

### **2.3 CRITICAL ISSUES**

This section is not applicable for this release.

### **2.4 AFFECTED DOCUMENTS**

NEMS Operations Guide

### **2.5 APPLICATION SYSTEM ADMINISTRATION**

There are no application system administration changes associated with this release.

### **3. TECHNICAL INFORMATION**

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

#### **3.1 TECHNICAL SYSTEM INTERFACES**

This section is not applicable with this release.

#### **3.2 DATA DICTIONARY CHANGES**

Refer to Appendix D, Section 4.0, for the data dictionary changes in this release.

#### **3.3 SOFTWARE OBJECT CHANGES**

Modules affected by this release are included in Appendix D, Section 2.2.

#### **3.4 DATABASE ADMINISTRATION**

This section describes the database administration activities for installation of this release.

##### **3.4.1 Release Dataset Names**

Refer to Appendix D, Introduction section, for the release dataset names.

##### **3.4.2 Inventory of Objects**

Refer to Appendix D, Section 2.1, for an inventory of Natural object types.

##### **3.4.3 Storage Considerations**

The changes represented by this release should not affect storage requirements.

##### **3.4.4 Installation Procedures**

Refer to Appendix D, Installation Instructions for NEMS Software Release 4.9.1 for detailed software installation procedures.

#### **3.5 OPERATIONAL PREPARATION**

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of this release.

#### **4. KNOWN AND OPEN PROBLEMS**

There are no known or open problems related to this release.

## **APPENDIX A - ABBREVIATIONS AND ACRONYMS**

CC	Consolidation Center
CCR	Change Control Request
CSC	Computer Sciences Corporation
DBA	Database Administrator
DR	Discrepancy Report
FAX	Electronic Facsimile Transmission
IRM	Information Resources Management
JCL	Job Control Language
MSFC	Marshall Space Flight Center
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NEMS	NASA Equipment Management System
NPDMS	NASA Property Disposal Management System
SESAAS	Sustaining Engineering Support for Agencywide Administrative Systems
VDD	Version Description Document

## **APPENDIX B - GLOSSARY**

### **Database Administration**

Responsibility for maintaining the physical database environment.

### **Implementation**

The process by which a NASA site installs a NASA software release and places it into operational use.

### **Operational Preparation**

Preparation by a NASA site for installation and use of a NASA application release.

### **System Administration**

Responsibility for administrative functions such as application security and table data maintenance associated with a NASA application.

## **APPENDIX C - FUNCTIONAL CHANGE VALIDATION PROCEDURES**

Index of validation procedures for changes in this release:

<b>Section</b>	<b>CCR</b>	<b>Title</b>
1.0	298	Date Reconciliation
2.0	301	Additional queries for HQ code B
3.0	302	Make CAPITALIZATION-AMT a descriptor on NEMS-EQUIPMENT and NEMS-HISTORY files

Details for the validation procedures follow:

## **1.0 CCR 298 – Date Reconciliation.**

During the Inventory Process if an item has a location change after it has been scanned but before the scanned data has been processed, the newer information is overwritten by the scanned data. Even though the location change occurred after the item was scanned. This also happens on a user change or custodian account change.

### **Description of Change**

Code was changed to insert a test to verify that the scanner information is more current than the last action performed on an item before updating the item with the scanned information.

### **Functional Impact**

There is no functional impact as a result of this CCR.

### **Validation Procedures**

#### Pre-Test Preparation

- Have an open triennial inventory for the method of inventory you plan to test.
- Select or create NEMS Equipment records for the test.
- Create a scan file that has a scan date greater than or equal to the Account/Location inventory open date.

#### Procedures

- Open triennial inventory for the method of inventory that will be tested first (Custodian Account or Grid Location).
- Open inventory for the Account/Location.
- Create the scan file using the date requirement in last step of the pre-test preparation.
- Select several equipment records from the second step of the pre-test preparation. Process Inventory-By-Exception type NEMS Transactions on the records. The transaction process date must be at least one day later than the scan file date. These transactions must be processed before the Account/Location inventory is processed.
- Upload scans and process inventory.
  - Expected Results: The inventory process will not update the Equipment record if the Date Inventoried on the record is later than the scanned date on the inventory being processed. The inventory process will count these type items with the Matched, Right Locations on the Currently Inventory Status Display Screen. These items will be included in the 763 Report, Inventory Matched Items. All scanned ECNs that have an out code on the Equipment record will be considered as overages to the Account/Grid that they are processed in and will be included on the 761 Report, Overage Items Report.

---

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
INVBBIS1	Bar Code Data Against Equipment File	Subpgm
INVBBIS4	Bar Code Data Against Equipment File	Subpgm
INVIEXNA	Inventory Underage Clearing	Subpgm
TRNW29N1	Change Txn 29 (Web Equipment Location Change)	Subpgm

## **2.0 CCR 301 – Additional queries for HQ code B.**

Needs additional queries for FY 2001.

### **Description of Change**

Code was changed to create seven additional queries:

1. Items transferred out to contractors/grantees (Tran 67)
2. Items transferred in from contractors/grantees (Tran 06)
3. Items transferred to real property (Tran 86)
4. Items disposed of (Trans X90, I90, 80, and 81)
5. Items transferred to another agency (Tran 66)
6. Items transferred from another agency
7. Items reutilized.

These reports should be for capital property only. The same equipment extract file (NEUUEQPA) is used to create extract report for headquarters. The NEMS-HISTORY file will also be used. The following fields should be displayed: Installation, ECN, Item Name, Capitalization Amount, Year Manufactured, Date NASA Acquired, and Transaction Number.

### **Functional Impact**

There is no functional impact as a result of this CCR.

### **Validation Procedures**

- Run programs NEUCEQPD, NEUCEQPE, NEUCEQPF, NEUCEQPG, NEUCEQPH, NEUCEQPI, NEUCEQPJ, in batch.  
Expected Results: A work file will be create that can be used in creating an EXCELL spreadsheet relative to the selected NEMS transactions 67, 06, 86, 80, 81, 90, 66, 05, and 13, respectively.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS</u>		
NEUCEQPD	NEMS Capital Equipment – for Trans 67	Program
NEUCEQPE	NEMS Capital Equipment – for Trans 06	Program
NEUCEQPF	NEMS Capital Equipment – for Trans 86	Program
NEUCEQPG	NEMS Capital Equipment – for Trans 80, 81, 90	Program
NEUCEQPH	NEMS Capital Equipment – for Trans 66	Program
NEUCEQPI	NEMS Capital Equipment – for Trans 05	Program
NEUCEQPJ	NEMS Capital Equipment – for Trans 13	Program

**3.0 CCR 302 – Make CAPITALIZATION-AMT a descriptor on NEMS-EQUIPMENT and NEMS-HISTORY files.**

Currently the CAPITALIZATION-AMT field is not a descriptor on the NEMS-EQUIPMENT and NEMS-HISTORY files.

**Description of Change**

Code was changed to make CAPITALIZATION-AMT field a descriptor on the NEMS-EQUIPMENT and NEMS-HISTORY files so it can be used to search the file.

**Functional Impact**

There is no functional impact as a result of this CCR.

**Validation Procedures**

None

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<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
None		

## APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS SOFTWARE RELEASE 4.9.1

### Introduction

Release information:

System Name: NEMS  
Release Number: 4.9.1  
Release Date: September 28, 2001  
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (Use following Key Words: SESAAS & NEMS)

Telephone: (256) 544-6673  
Email: neal.cantrell@msfc.nasa.gov  
FAX: (256) 544-1836

The following datasets are located on the transient storage DASD volumes under the following data sets names:

xxMOV.NEMS.PROD.R491.R0901.PRD  
xxMOV.NEMS.PROD.R491.R0901.SRC

Where "xx" is replaced by the appropriate NASA Center designation.

AR - ARC  
DF - DFRC  
GS - GSFC  
HQ - HQ  
J5 - JSC  
KS - KSC  
LA - LaRC  
LE - GRC (Glenn)  
MS - MSFC  
SS - SSC

## Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in section 9.0 to assist in tracking the installation of this release.

- 1.0 Back Up Existing Data
- 2.0 Copy Source
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods
- 9.0 Installation Checklist

### 1.0 Back Up Existing Data

It is advisable to back up all NEMS files as a precautionary measure prior to installation.

### 2.0 Copy Source

#### 2.1 Copy Source Code

Load the NEMS source library from the dataset

xxMOV.NEMS.PROD.R491.R0901.SRC.

The source module counts included in this release are listed below:

Natural Source Modules by Type	Count
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	0
MAPS	0
HELP ROUTINES	0
SUBROUTINES	0
SUBPROGRAMS	4
PROGRAMS	8
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	12

## 2.2 List of Source Code Modifications

The following are the modules added, modified, and deleted.

### Added Modules:

1. NEUCEQPD Program
2. NEUCEQPE Program
3. NEUCEQPF Program
4. NEUCEQPG Program
5. NEUCEQPH Program
6. NEUCEQPI Program
7. NEUCEQPJ Program

### Modified Modules:

1. INVBBIS1 Subpgm
2. INVBBIS4 Subpgm
3. INVIEXNA Subpgm
4. NEMS Program
5. TRNW29N1 Subpgm

### Deleted Modules:

None

## 3.0 Pre-Predict Data Conversion

Not applicable with this release.

## 4.0 Install Predict

### 4.1 Data Dictionary Changes

This release will include the new enhancements for Version 4.9.1. Details for changes in this release can be found under Section 4.1.3 Physical File Changes or by performing Predict reporting on the keyword NEMS-4.9.1.

Use SYSDICBE to load the PREDICT modifications from the dataset:  
xxMOV.NEMS.PROD.R491.R0901.PRD.

The following NEMS DDMs should be generated after the PREDICT load is completed.

NEMS-EQUIPMENT  
NEMS-HISTORY

### 4.1.1 Inventory of Objects

The object types and inventory listed below represent a comprehensive count of the Predict object modules for this release.

#### PREDICT Objects by Type:

Keyword	-	1
ADABAS Files and Views	-	2

### 4.1.2 Storage Considerations

Not applicable with this release.

### 4.1.3 Physical File Changes

Invert the following field:

```
NEMS-EQUIPMENT                               File # 188
  Ty L Field ID                               F Length  Occ  D U DB S
  *- - -----*-----*-----*-----* * * -- *
      1 CAPITALIZATION-AMT                     N    9.2   D   DC N
```

Using the following commands:

```
//DDKARTE DD *
ADAINV INVERT FILE=188
ADAINV TEMPSIZE=???,SORTSIZE=???
ADAINV FIELD='DC'
/*
```

Invert the following field:

```
NEMS-HISTORY                               File # 190
  Ty L Field ID                               F Length  Occ  D U DB S
  *- - -----*-----*-----*-----* * * -- *
      1 CAPITALIZATION-AMT                     N    9.2   D   DC N
```

Using the following commands:

```
//DDKARTE DD *
ADAINV INVERT FILE=190
ADAINV TEMPSIZE=???,SORTSIZE=???
ADAINV FIELD='DC'
```

/\*

## 5.0 Catalog Source Code

The following modules should be changed before the CATALOG is run. Modules NEMS, INV000P0, and MNUC00P1 need to be modified at each center to contain the correct contact name and phone number for each center. Replace the ?? in MSD008P1 and MSD008P5 with your installation number.

Run a batch job to catalog (CATALL) all modules in the NEMS library using the NASA Batch Standard Parameters replacing the existing PS and LS with the following values: PS=23 and LS=80. It is not necessary to catalog the Global Data Area (GDA).

You should receive 38 NATURAL 0303 errors for modules that begin with RPT\* that concern page overflow and 32 programs will produce NATURAL 0002 errors. Program MSC005P1 will not compile. There should be a total of 71 NATURAL errors.

A list of errors found above and dispositions of these results follows:

- To compile the NATURAL 0303 errors correctly, run another CATALOG for the RPT\* modules in the NEMS library using the NASA Batch Standard Parameters. You should receive 12 NATURAL 0002 errors. Ignore the 0002 errors because these objects are dynamic.
- The 32 NATURAL 0002 errors from the first CATALOG are to be IGNORED because these objects are dynamic.
- MSX001P1 will only compile for centers that use the NEMS-PRIOR-MONTH file.
- IGNORE any errors for program MSC005P1.

After all objects are compiled, the NEMS application will run under the NASA On-line Standard Parameters.

## 6.0 Post-Predict Data Conversion

Not applicable with this release.

## 7.0 Perform Release-Specific Procedures

Not applicable with this release.

## 8.0 Local JCL Mods

Other JCL changes may be necessary due to differences in each center's JCL. Changes are in **bold**:

Not applicable with this release.

## **9.0 Installation Checklist**

- 1.0 Back Up Existing Data
- 2.0 Copy Source
  - 2.1 Copy Source Code
  - 2.2 List of Source Code Modifications
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
  - 4.1 Data Dictionary Change
    - 4.1.1 Inventory of Objects
    - 4.1.2 Storage Consideration
    - 4.1.3 Physical File Change
- 5.0 Catalog Source Code
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
- 8.0 Local JCL Mods

## **APPENDIX E - PROCEDURE FOR CREATING ANNUAL REPORT OF CAPITAL EQUIPMENT AT FISCAL YEAR END**

(Note: This is not a regular NEMS report and must be executed outside of the NEMS nightly cycle.)

Each NASA center should run the program NEUUEQPA to create a backup file of the NEMS Equipment File at fiscal year end after all NEMS data has been completed and closed out for the year.

Then programs NEUCEQPD, NEUCEQPE, NEUCEQPF, NEUCEQPG, NEUCEQPH, NEUCEQPI, NEUCEQPJ should be run in batch. These programs will create a work file (flat file) of fiscal year end Capital Equipment Items based on Last Transaction Number. Each work file contains the following data elements: Installation Number, ECN, Item Name, Capitalization Amount, Date NASA Acquired, Year Manufactured and Last Transaction Number (all delimited by semi-colons).

NEUCEQPD reads the active NEMS History File to produce a work file of Capital Equipment Items that were transferred out to Contractors/Grantees (NEMS TX 67) during the last fiscal year.

### **The following is an example of the JCL used to run this program:**

```
//IRNEMSSD JOB (AGAOHNEMS002,4485), 'CAP EQUIP', CLASS=D,
//          NOTIFY=MSJLV, MSGCLASS=A
//*****
//* READ THE NEMS HISTORY FILE *
//*****
//DVNPDMS EXEC N01Z
//CMPRINT DD SYSOUT=(A,P3103102)
//CMWKF02 DD DSN=MSIRM.NEMSDD.CCR301D.JV,
//          DISP=(NEW,KEEP,DELETE),
//          DCB=(RECFM=VB,LRECL=450,BLKSIZE=4500),
//          SPACE=(TRK,(5,3),RLSE),
//          UNIT=SYSDA
//CMSYNIN DD *
NEDEVL,MSJLV
%*
MSJLV
NEUCEQPD 0808 20001001 20010930
FIN
/*
//
```

NEUCEQPE reads the active NEMS History File and the backup NEMS Equipment File to produce a work file of Capital Equipment Items that were transferred in from Contractors/Grantees (NEMS TX 06) during the last fiscal year.

**The following is an example of the JCL used to run this program:**

```
//IRNEMSSE JOB (AGAOHNEMS002,4485), 'CAP EQUIP', CLASS=D,
//          NOTIFY=MSJLV, MSGCLASS=A
//*****
//* READS THE NEMS EQUIPMENT FILE BACKUP AND ACTIVE NEMS HISTORY      *
//*****
//DVNPDMS  EXEC N01Z
//CMPRINT  DD SYSOUT=(A,P3103102)
//CMWK01   DD MSIRM.NEMSDD.CCR301X.EQBK,
//          DISP=(SHR,KEE,KEEP)
//CMWK02   DD DSN=MSIRM.NEMSDD.CCR301E.JV,
//          DISP=(NEW,KEEP,DELETE),
//          DCB=(RECFM=VB,LRECL=450,BLKSIZE=4500),
//          SPACE=(TRK,(5,3),RLSE),
//          UNIT=SYSDA
//CMSYNIN  DD *
NEDEVL,MSJLV
%*
MSJLV
NEUCEQPE 0808 20001001 20010930
FIN
/*
//
```

NEUCEQPF reads the active NEMS History File to produce a work file of Capital Equipment Items that were transferred to Real Property (NEMS TX 86) during the last fiscal year.

**The following is an example of the JCL used to run this program:**

```
//IRNEMSSF JOB (AGAOHNEMS002,4485), 'CAP EQUIP', CLASS=D,
//          NOTIFY=MSJLV,MSGCLASS=A
//*****
//* READ THE NEMS HISTORY FILE                                     *
//*****
//DVNPDMS  EXEC N01Z
//CMPRINT  DD SYSOUT=(A,P3103102)
//CMWKF02  DD DSN=MSIRM.NEMSDD.CCR301F.JV,
//          DISP=(NEW,KEEP,DELETE),
//          DCB=(RECFM=VB,LRECL=450,BLKSIZE=4500),
//          SPACE=(TRK,(5,3),RLSE),
//          UNIT=SYSDA
//CMSYNIN  DD *
NEDEVL,MSJLV
%*
MSJLV
NEUCEQPF 0808 20001001 20010930
FIN
/*
//
```

NEUCEQPG reads the active NEMS History File to produce a work file of Capital Equipment Items that were disposed of (NEMS TX 80, 81, 90) during the last fiscal year.

**The following is an example of the JCL used to run this program:**

```
//IRNEMSSG JOB (AGAOHNEMS002,4485), 'CAP EQUIP', CLASS=D,
//          NOTIFY=MSJLV,MSGCLASS=A
//*****
//* READ THE NEMS HISTORY FILE                                     *
//*****
//DVNPDMS EXEC N01Z
//CMPRINT DD SYSOUT=(A,P3103102)
//CMWKF02 DD DSN=MSIRM.NEMSDD.CCR301G.JV,
//          DISP=(NEW,KEEP,DELETE),
//          DCB=(RECFM=VB,LRECL=450,BLKSIZE=4500),
//          SPACE=(TRK,(5,3),RLSE),
//          UNIT=SYSDA
//CMSYNIN DD *
NEDEVL,MSJLV
%*
MSJLV
NEUCEQPG 0808 20001001 20010930
FIN
/*
//
```

NEUCEQPH reads the active NEMS History File to produce a work file of Capital Equipment Items that were transferred to another agency (NEMS TX 66) during the last fiscal year.

**The following is an example of the JCL used to run this program:**

```
//IRNEMSSH JOB (AGAOHNEMS002,4485), 'CAP EQUIP', CLASS=D,
//          NOTIFY=MSJLV, MSGCLASS=A
//*****
//* READ THE NEMS HISTORY FILE *
//*****
//DVNPDMS  EXEC N01Z
//CMPRINT  DD SYSOUT=(A,P3103102)
//CMWKF02  DD DSN=MSIRM.NEMSDD.CCR301H.JV,
//          DISP=(NEW,KEEP,DELETE),
//          DCB=(RECFM=VB,LRECL=450,BLKSIZE=4500),
//          SPACE=(TRK,(5,3),RLSE),
//          UNIT=SYSDA
//CMSYNIN  DD *
NEDEVL,MSJLV
%*
MSJLV
NEUCEQPH 0808 20001001 20010930
FIN
/*
//
```

NEUCEQPI reads the active NEMS History File and the backup NEMS Equipment File to produce a work file of Capital Equipment Items that were transferred from another agency (NEMS TX 05) during the last fiscal year.

**The following is an example of the JCL used to run this program:**

```
//IRNEMSSI JOB (AGAOHNEMS002,4485), 'CAP EQUIP', CLASS=D,
//          NOTIFY=MSJLV, MSGCLASS=A
//*****
//* READS THE NEMS EQUIPMENT FILE BACKUP AND ACTIVE NEMS HISTORY      *
//*****
//DVNPDMS  EXEC N01Z
//CMPRINT  DD SYSOUT=(A,P3103102)
//CMWK01   DD MSIRM.NEMSDD.CCR301X.EQBK,
//          DISP=(SHR,KEE,KEEP)
//CMWKF02  DD DSN=MSIRM.NEMSDD.CCR301I.JV,
//          DISP=(NEW,KEEP,DELETE),
//          DCB=(RECFM=VB,LRECL=450,BLKSIZE=4500),
//          SPACE=(TRK,(5,3),RLSE),
//          UNIT=SYSDA
//CMSYNIN  DD *
NEDEVL,MSJLV
%*
MSJLV
NEUCEQPI 0808 20001001 20010930
FIN
/*
//
```

NEUCEQPJ reads the active NEMS History File and the backup NEMS Equipment File to produce a work file of Capital Equipment Items that were reutilized (NEMS TX 13) during the last fiscal year.

**The following is an example of the JCL used to run this program:**

```
//IRNEMSSJ JOB (AGAOHNEMS002,4485), 'CAP EQUIP', CLASS=D,
//          NOTIFY=MSJLV, MSGCLASS=A
//*****
//* READS THE NEMS EQUIPMENT FILE BACKUP AND ACTIVE NEMS HISTORY      *
//*****
//DVNPDMS  EXEC N01Z
//CMPRINT  DD SYSOUT=(A,P3103102)
//CMWK01   DD MSIRM.NEMSDD.CCR301X.EQBK,
//          DISP=(SHR,KEE,KEEP)
//CMWK02   DD DSN=MSIRM.NEMSDD.CCR301J.JV,
//          DISP=(NEW,KEEP,DELETE),
//          DCB=(RECFM=VB,LRECL=450,BLKSIZE=4500),
//          SPACE=(TRK,(5,3),RLSE),
//          UNIT=SYSDA
//CMSYNIN  DD *
NEDEVL,MSJLV
%*
MSJLV
NEUCEQPJ 0808 20001001 20010930
FIN
/*
//
```

Each program is executed using its associated JCL that passes three parameters to the program via an input statement. The parameters are the center's Installation Number, a Begin Date, and End Date to select the Capital Equipment Items for that fiscal year. Every year the Begin and End Dates should be changed in the JCL to select the desired fiscal year data.

After each program has run in batch and it has been determined that a good output file was created, the File Transfer Protocol (FTP) can be used to migrate the ASCII flat file from the mainframe to a location on your PC. When the file has been moved from mainframe to PC, it may be opened using Microsoft Excel with the Text Import Wizard. This process involves 3 steps: Step 1 of 3 – click on Delimited, then click next; Step 2 of 3 – click on the Semicolon (delimitation character used in the flat file to separate the columns of data), then click next; Step 3 of 3 – click General Column data format, then click finish. The Excel file may then be saved. At Filename save, enter a filename with

an extension of .xls and Save as type Microsoft Excel Worksheet. The spreadsheet may then be sorted and formatted as desired with the page and column headings, date of report and gridlines.