

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

Release 4.3

NASA-NEMS-VDD-13

PrISMS Contract

April 30, 1999



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 4.3**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
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April 30, 1999

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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 4.3 and has an effective release date of April 30, 1999.

1.2 PURPOSE OF THE RELEASE

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

<u>CCR</u>	<u>Title</u>
27	04 transaction: conveyor field
42	Location field discrepancy in subsystem RG67, RG68, RG69
131	Ability to edit a C26 transaction
178	IFM interface for NEMS
180	Core modifications for IFMP standard interface
200	CAP-SENS-CODE on records being brought back from history
203	Add DATE-NASA-ACQ to 04, I04, 06, I06, 13, and I13 transactions
208	Capitalization Value calculation
209	Capitalized value on static adhoc
210	Capitalized value on dynamic adhoc
211	Pop-up window during inventory close
212	Status of a transaction for each custodian in Inventory
216	Add transaction I18 (Receipt from not previously meeting criteria for tagging)

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

<u>CCR</u>	<u>Title</u>
205	DATE-INVENTORIED not updated on NEMS-EQUIPMENT for txn 29 & 56
220	Inventory Error Message for C26 and C31

1.3 SCOPE

This VDD provides the functional and technical user of NEMS with information regarding the contents, status, and structure of Release 4.3, including the following:

- Changes implemented since Release 4.1.
- 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 function 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
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

The following documents are affected by this release:

Inventory Operations Guide

Inventory Users Guide

PCM Users Operations Guide

NEMS Users Guide

NEMS Operations Guide

These documents in their entirety will be available on the SESAAS webpage by the end of the April 1999. They can be printed, read, and downloaded using Adobe Acrobat (see the web page for instructions).

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, Paragraph 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 4.3 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

The 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.

Section	CCR	Title
1.0	27	04 transaction conveyor field
2.0	42	Location field discrepancy in subsystem RG67, RG68, RG69
3.0	131	Ability to edit a C26 transaction
4.0	178	IFM Interface for NEMS
5.0	180	Core modifications for IFMP standard interface
6.0	200	CAP-SENS-CODE on records being brought back from history
7.0	203	Add DATE-NASA-ACQ to 04, I04, 06, I06, 13, and I13 transactions
8.0	205	DATE-INVENTORIED not updates on NEMS-EQUIPMENT for txn 29 & 56
9.0	208	Capitalization Value calculation
10.0	209	Capitalized value on static adhoc
11.0	210	Capitalized value on dynamic adhoc
12.0	211	Pop-up window during inventory close
13.0	212	Status of a transaction for each custodian in Inventory
14.0	216	Add transaction I18 (Receipt from not previously meeting criteria for tagging)
15.0	220	Inventory Error Message for C26 and C31

Details for the validation procedures follow:

1.0 CCR 27 04 transaction: conveyor field

Currently when a receiving installation adds equipment with an 04 transaction, the “conveyor” field is mandatory. Errors can be made by manually typing in the “conveyor” number.

Description of Change

A change was made to automatically populate the “conveyor” field when an intracenter transfer occurs.

Functional Impact

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

Validation Procedures

- A transaction 04 should be executed against an ECN on the history file. This ECN should have been placed on the history file for an intracenter transfer.
Expected result: The Installation Conveyor field will be populated.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
(NEMS)		
TRN000P1	Equipment file (Transaction) Update Menu	Program
TRNDELP1	Delete Transaction Processor	Program
(INV)		
TRNIDLDP1	Delete Transaction Processor	Program
(PCM)		
TRNUPDP7	NEMS Update Transaction from the Pending File Records	Program

2.0 CCR 42 Location field discrepancy in subsystem RG67, RG68, RG69

(RG67 = PCM, RG68 = NEMS, RG69 = Inventory)

RG67-location field is not available to update on any RG67 screens. RG68-location field is not changed during (TX19) transaction. Record change (TX60) is required to correct field after a reinstatement from (TX71) survey. Location field not built from a table file, Adhoc reports are in use for exceptions.

Description of Change

A change was made to add location (zip code, building, room, and location) fields to the screen for transaction 15.

Functional Impact

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

Validation Procedures

- Add a record using transaction 15 (Receipt from Return of Record from Historical file).
Expected result: Location fields (zip code, building, room, and location) fields are available for input on the screen.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN015P1	Receipt from return of record from historical file	Program

3.0 CCR 131 Ability to edit a C26 transaction

When a C26 is initiated, the receiving custodian has the ability to “accept, reject, or exit”. They should also be allowed to “edit” in order to eliminate the need to do an additional “change” transactions (i.e. C29, C31).

Description of Change

A change was made to the custodian acceptance of transaction C26 and C52 to allow the receiving custodian to edit user number and the location information before approving the transaction.

Functional Impact

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

Validation Procedures

- Select an ECN for an item that has had a C26 transaction processed against it.
Expected result: There should be an option for the receiving custodian to edit the transaction before Accepting the transaction. Any changes made on the edit screen should be reflected on the screen listing the information for the Equipment and Pending files.
- Select an ECN for an item that has had a C52 transaction processed against it.
Expected result: There should be an option for the receiving custodian to edit the transaction before Accepting the transaction. Any changes made on the edit screen should be reflected on the screen listing the information for the Equipment and Pending files.

(NOTE: if the information is the same on the Equipment and Pending files then the information on the Pending side will be blank.)

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRNC26M1		Map
TRNC26N1	Change Transaction 26	Subpgm
TRNC26P1	Change Transaction 26 (Custodian Account Change)	Program
TRNC52M1		Map
TRNC52N1	Change Transaction 52	Subpgm
TRNC52P1	Change Transaction 52 (Excess Equipment Turn-In By Custodian	Program
TRNUPDP1	NEMS Update Transaction from the Pending File Records	Program
TRNUPDS1	NEMSPCM Display Equipment and Pending File	Subpgm

4.0 CCR 178 IFM interface for NEMS

NEMS must provide a daily interface file to the IFM system. Information will be downloaded into a flat file in the IFM standard interface file format. Fields will be populated as identified in the interface meetings.

Description of Change

Code was added to create a daily interface file for the IFM system.

Functional Impact

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

Validation Procedures

- Run the batch process to build the flat file.
Expected result: The flat file is built in the IFM standard interface file format.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
MSD011P1	Create IFM Flat File	Program
MSD011P2	Modify IFM File Transmission Name	Program

5.0 CCR 180 Core modifications for IFMP standard interface

Currently the NEMS system does not have several fields (Book Value, Fair Market Value, Life Expectancy, Organization Cost Account (OCA), Program Cost Account (PCA), Previous OCA, and Previous PCA) that are mandatory for the Standard Interface file with the IFM system.

Description of Change

A file was added to include the ECN, Property Case Number, Book Value, Fair Market Value, Life Expectancy, OCA, PCA, Previous OCA, Previous PCA, Pending OCA, and Pending PCA. Code was added to allow input of the OCA and PCA for add transactions (NEMS - 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, and 21. INV - I04, I06, I08, I09, I10, I11, I12, I13, 14, I15, I18, I19, and I20). Code was added to allow the OCA and PCA to be changed for change transactions (NEMS - 25) and delete transactions (NEMS - 65, 66, 67, 69, 71, 72, 73, 80, 81, 85, 86, and 87. INV - I65, I66, I67, I69, I71, I72, I73, I80, I81, I85, and I86. PCM - C65, C66, C67, C69, C71, C72, and C73).

Functional Impact

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

Validation Procedures

- Validate that add transactions (NEMS - 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, and 21. INV - I04, I06, I08, I09, I10, I11, I12, I13, I14, I15, I18, I19, and I20) will allow input of OCA and PCA.
Expected result: The OCA and PCA window will be displayed for these transactions.
- Validate that change transactions (NEMS - 25, will allow input of a new OCA and PCA.
Expected results: The OCA and PCA window will be displayed and can be changed for these transactions.
- Validate that delete transactions (NEMS - 65, 66, 67, 69, 71, 72, 73, 80, 81, 85, 86, and 87. INV - I65, I66, I67, I69, I71, I72, I73, I80, I81, I85, and I86. PCM - C65, C66, C67, C69, C71, C72, and C73) will allow input of a new OCA and PCA.
Expected results: The OCA and PCA window will be displayed and can be changed for these transactions.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
(NEMS Modules)		
NEIFM010	Load Table 010 for IFM	Program
NEIFM2MA		Map
NEIFM2NA	IFMP Window	Subpgm

TRNADDP1	Add Transaction Processor	Program
TRNDELP1	Delete Transaction Processor	Program
TRN014P2	Transaction 14 Processing Program	Program
TRN015P1	Add Transaction 15 (Receipt from Return of Record From Historical File)	Program
TRN021P2	Transaction 21 Processing Program	Program
TRN025P1	Change Transaction 25 (Cost Change)	Program
TRN026P1	Change Transaction 26 (Custodian Account Change)	Program
TRN029P1	Change Transaction 29 (Equipment Location Change)	Program
TRN060P2	Change Transaction 60 (NASA Held Equipment Record Data Change)	Program
UNLOADPA	Unloads IFM table file	Program
UPLOADPA	Loads IFM table file	Program
(Inventory Modules)		
NEIFM2NA	IFMP Window	Subpgm
TRNIADP1	Add Transaction Processor	Program
TRNIDL1	Delete Transaction Processor	Program
TRNI14P3	Add Transaction I14 (Custodian Account Change)	Program
(PCM Modules)		
NEIFM2NA	IFMP Window	Subpgm
NEIFM2NB	IFMP Window	Subpgm
TRNC26P1	Change Transaction 26 (Custodian Account Change)	Program
TRNC29P1	Change Transaction 29 (Equipment Location Change)	Program
TRNC31P1	Change Transaction 31 (User Number Change)	Program
TRNC38P1	Change Transaction 38 (Borrowed Out)	Program
TRNC39P1	Change Transaction 39 (Borrowed Out-Returned)	Program
TRNC40P1	Change Transaction 40 (Loan/Lease Out)	Program
TRNC41P1	Change Transaction 41 (Loaned/Leased Out-Returned)	Program
TRNC42P1	Change Transaction 42 (Loan Pool Out)	Program
TRNC43P1	Change Transaction 43 (Loan Pool Out-returned)	Program
TRNC52P1	Change Transaction 52 (Excess Equipment Turn-in By Custodian)	Program
TRNC60P2	Change Transaction 60 (NASA Held Equipment Data Change)	Program
TRNC65P1	Delete Transaction 65 (Transfer to Another NASA Installation)	Program
TRNC66P1	Delete Transaction 66 (Transfer to other Government Agency)	Program
TRNC67P1	Delete Transaction 67 (Transfer of GFE to a Contractor)	Program
TRNC69P1	Delete Transaction 69 (Lease In-Returned)	Program
TRNC71P1	Delete Transaction 71 (Survey - Missing Equipment)	Program
TRNC72P1	Delete Transaction 72 (Decontrol - Removal of Tags)	Program

TRNC73P1

Delete Transaction 73 (Deletes Resulting from
Assembly / Disassembly)

Program

6.0 CCR 200 CAP-SENS-CODE on records being brought back from history

When the capitalization level was raised to \$100,000 the NEMS-HISTORY file was not converted. When records are being returned from history (transaction 15, I15, 19, and I19) the CAP-SENS-CODE is not being converted if necessary.

Description of Change

Code was changed to automatically convert the CAP-SENS-CODE if necessary when an item is returned from history (Transactions 15, I15, 19, and I19).

Functional Impact

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

Validation Procedures

NOTE: When doing a transaction 15 or I15 it must have been deleted within the past 60 days.

- Do a transaction 15 on an item in history that has a CAP-SENS-CODE of 'M' and a COST of \$5000 or greater.
Expected results: The CAP-SENS-CODE should be changed to 'Q'.
- Do a transaction 15 on an item in history that has a CAP-SENS-CODE of 'P' and a COST of \$5000 or greater.
Expected results: The CAP-SENS-CODE should be changed to 'N'.
- Do a transaction 19 on an item in history that has a CAP-SENS-CODE of 'M' and a COST of \$5000 or greater.
Expected results: The CAP-SENS-CODE should be changed to 'Q'.
- Do a transaction 19 on an item in history that has a CAP-SENS-CODE of 'P' and a COST of \$5000 or greater.
Expected results: The CAP-SENS-CODE should be changed to 'N'.
- Do a transaction I15 on an item in history that has a CAP-SENS-CODE of 'M' and a COST of \$5000 or greater.
Expected results: The CAP-SENS-CODE should be changed to 'Q'.
- Do a transaction I15 on an item in history that has a CAP-SENS-CODE of 'P' and a COST of \$5000 or greater.
Expected results: The CAP-SENS-CODE should be changed to 'N'.
- Do a transaction I19 on an item in history that has a CAP-SENS-CODE of 'M' and a COST of \$5000 or greater.
Expected results: The CAP-SENS-CODE should be changed to 'Q'.
- Do a transaction I19 on an item in history that has a CAP-SENS-CODE of 'P' and a COST of \$5000 or greater.
Expected results: The CAP-SENS-CODE should be changed to 'N'.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN015P1	Add transaction 15 (Receipt from return of record	Program

TRN019P1	from history file) Add transaction 19 (Reinstating items previously lost on survey)	Program
TRNI15P1	Add transaction 15 (Receipt from return of record from history file)	Program
TRNI19P1	Add transaction 19 (Reinstating items previously lost on survey)	Program

7.0 CCR 203 Add DATE-NASA-ACQ to 04, I04, 06, I06, 13, and I13 transactions.

DATE-NASA-ACQ needs to be a modifiable field on the following transactions: (NEMS) 04, 06, 13; (NEMS INV) I04, I06, and I13.

Description of Change

Code was changed to add DATE-NASA-ACQ to the screens for the 04, 06, 13, I04, I06, and I13 transactions.

Functional Impact

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

Validation Procedures

- Perform a transaction 04 for an ECN that is on the Transfer file.
Expected result: The transaction 04 screen will display the DATE NASA ACQUIRED from the Transfer file.
- Perform a transaction 04 for an ECN that is on the History file.
Expected result: The transaction 04 screen will display the DATE NASA ACQUIRED from the History file.
- Perform a transaction 04 for an ECN that is not on the Transfer or History file.
Expected result: The transaction 04 screen will display the DATE NASA ACQUIRED blank and available for input.
- Perform a transaction 06 for an ECN that is on the History file.
Expected result: The transaction 06 screen will display the DATE NASA ACQUIRED from the History file.
- Perform a transaction 06 for an ECN that is not on the History file.
- Expected result: The transaction 06 screen will display the DATE NASA ACQUIRED blank.
- Perform a transaction 13 for an ECN that is on the Transfer file.
Expected result: The transaction 13 screen will display the DATE NASA ACQUIRED from the Transfer file.
- Perform a transaction 13 for an ECN that is on the History file.
Expected result: The transaction 13 screen will display the DATE NASA ACQUIRED from the History file.
- Perform a transaction 13 for an ECN that is not on the Transfer or History file.
Expected result: The transaction 13 screen will display the DATE NASA ACQUIRED blank and available for input.
- Perform a transaction I04 for an ECN that is on the Transfer file.
Expected result: The transaction I04 screen will display the DATE NASA ACQUIRED from the Transfer file.
- Perform a transaction I04 for an ECN that is on the History file.
Expected result: The transaction I04 screen will display the DATE NASA ACQUIRED from the History file.

- Perform a transaction I04 for an ECN that is not on the Transfer or History file.
Expected result: The transaction I04 screen will display the DATE NASA ACQUIRED blank and available for input.
- Perform a transaction I06 for an ECN that is on the Transfer file.
Expected result: The transaction I06 screen will display the DATE NASA ACQUIRED from the Transfer file.
- Perform a transaction I06 for an ECN that is not on the Transfer file.
Expected result: The transaction I06 screen will display the DATE NASA ACQUIRED blank.
- Perform a transaction I13 for an ECN that is on the Transfer file.
Expected result: The transaction I13 screen will display the DATE NASA ACQUIRED from the Transfer file.
- Perform a transaction I13 for an ECN that is on the History file.
Expected result: The transaction I13 screen will display the DATE NASA ACQUIRED from the History file.
- Perform a transaction I13 for an ECN that is not on the Transfer or History file.
Expected result: The transaction I13 screen will display the DATE NASA ACQUIRED blank and available for input.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN004P1	Add transaction 04 (Receipt by transfer-from NASA installation)	Program
TRN006P1	Add transaction 06 (Receipt by transfer-from contractor)	Program
TRN013P1	Add transaction 13 (Receipt from excess)	Program
TRNI04P1	Add transaction 04 (Receipt by transfer-from NASA installation)	Program
TRNI06P1	Add transaction 06 (Receipt by transfer-from contractor)	Program
TRNI13P1	Add transaction 13 (Receipt from excess)	Program

8.0 CCR 205 DATE-INVENTORIED not updated on NEMS-EQUIPMENT for txn 29 & 56

The DATE-INVENTORIED field is not being updated on the NEMS-EQUIPMENT file for transactions 29 and 56. The DATE-INVENTORIED is updated on the NEMS-DAILY-TRANS file for transactions 29 and 56.

Description of Change

Code was changed for transactions 29 and 56 to update the DATE-INVENTORIED on the NEMS-EQUIPMENT file.

Functional Impact

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

Validation Procedures

- Execute a transaction 29 (Equipment Location Change) for an item.
Expected result: DATE-INVENTORIED will be updated with the current date.
- Execute a transaction 56 (Repair Update Change) for an item.
Expected result: DATE-INVENTORIED will be updated with the current date.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN029P1	Change transaction 29 (Equipment Location Change)	Program
TRN056P1	Change transaction 56 (Repair Update Change)	Program

9.0 CCR 208 Capitalization Value calculation

Currently in NEMS an item is considered capital equipment if its COST is \$100,000 or greater. If the COST is less than \$100,000 and an adjustment is made to the item to increase the COST to \$100,000 or greater then the item is considered capital.

Requirement is to change the way an item is classified as capital equipment. If an item is added with a cost of \$100,000 then the item is considered capital. There will be 2 types of adjustments that can be made to an item: a correction or addition. If an item's value is being corrected to above \$100,000 then the entire \$100,000 is capital. If an addition is made to an item and the value of the addition is \$100,000 or greater then only the value of the addition is considered capital. The original amount is not considered in the capital value. If an addition is made to an item and the value of the addition is less than \$100,000 then the neither the original amount (even if the original amount plus the addition make the cost \$100,000 or greater) nor the addition is considered capital.

Description of Change

Changes were made to add transactions (NEMS – 01, 04, 05, 06, 10, 11, 12, 13, 15, 16, 17, 18, 19, and 21; INV – I04, I06, I10, I11, I12, I13, I15, I18, and I19) to automatically compute the Capitalization Amount if the Cost is \$100,000 or more (Capitalization Amount = Cost). For add transactions (NEMS – 04 and 13; and INV – I04 and I13) the Capitalization Amount will be available for input by the user. For change transaction (NEMS 25) the Capitalization Amount will be available for input by the user. This value will replace the current Capitalization Amount. The Capitalization Amount must be either \$0 or \$100,000 or greater. All delete transactions will now move the Capitalization Amount from the Equipment file to the History file.

Functional Impact

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

Validation Procedures

- Validate that add transactions (NEMS - 01, 05, 06, 10, 11, 12, 15, 16, 17, 18, 19, and 21. INV - I06, I10, I11, I12, I15, I18, and I19) will calculate the Capitalization Amount if the Cost is \$100,000 or greater.
Expected result: The Capitalization Amount will be equal to the Cost if the Cost is \$100,000 or greater and will be \$0 if the Cost is less than \$100,000.
- Validate that add transactions (NEMS – 04 and 13. INV - I04 and I13) will allow input of the Capitalization Amount (must be \$100,000 or greater).
Expected result: The Capitalization Amount will be equal to the amount input on these transactions' screens.
- Validate that change transaction (NEMS – 25) will allow input of a replacement value for the Capitalization Amount.

Expected results: The Capitalization Amount Replacement will be available for input and must be either \$0 or \$100,000 or greater.

- Validate that all delete transactions in NEMS, INV, and PCM will move the Capitalization Amount from the Equipment file to the History file.
Expected results: The Capitalization Amount on the History file will be equal to the Capitalization Amount that was on the Equipment file.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
(NEMS)		
CAPITAL	Load Capitalization Val Amt from Cost	Program
MSA002P1	Periodic Purge of Historical File	Program
MSD001P1	Copy NEMS-DAILY-TRANS to NEMS-MONTH-TRANS	Program
MSD006P1	Items transferred to historical file	Program
MSD008P1	Daily transaction extract program	Program
MSD008P5	Month to date extract program	Program
MSD008P8	Recompile of transferred data	Program
MSD008P9	Recompile of transferred data	Program
MSM002P1	Copy NEMS-MONTH-TRANS to NEMS-CUMM-TRANS and purge	Program
MSX001P1	Copy NEMS-CUMM-TRANS to NEMS-PRIOR-MONTH	Program
NEMS	NEMS Start Program	Program
RPT010P1	Daily transaction register (By trans no)	Program
RPT011P1	Daily transaction register (By trans no exploded)	Program
RPT012P1	Daily transaction register (By ECN)	Program
RPT013P1	Daily transaction register (By Entry Ref No)	Program
RPT200P1	Capital Equipment Type Account Report	Program
RPT201P1	Capital Equipment Type Account Report	Program
RPT202P1	Capital Equipment Type Account Report	Program
RPT400P1	Financial Reconciliation Summary	Program
RPT410P1	1324 – Controlled Equipment Report	Program
RPT500P1	ECN Detail Item Report	Program
RPT501P1	ECN Detail Item Report	Program
TRNADDP1	Add transaction processor	Program
TRNDELP1	Delete transaction processor	Program
TRN000P1	Equipment file (Transaction) Update Menu	Program
TRN004P1	Add transaction 04 (Receipt by transfer- from NASA Installation)	Program
TRN013P1	Add transaction 13 (Receipt from excess)	Program
TRN021P2	Transaction 21 Processing Program	Program
TRN025P1	Change Transaction 25 (Cost Change)	Program
UPTBLS02	Table Update Utility	Program

(Inventory)		
INV	Inventory Startup Program	Program
TRNIADP1	Add Transaction Processor	Program
TRNIDL1	Delete Transaction Processor	Program
TRNI04P1	Add Transaction I04 (Receipt by Transfer-from NASA Installation)	Program
TRNI13P1	Add Transaction I13 (Receipt from Excess)	Program
TRNI14P2	Transaction 14 Processing Program	Program
(PCM)		
PCMMAP		Map
PCM000LD		LDA
PCM000LE		LDA
PCM000L3		LDA
TRNUPDP6	Add Daily Transaction Record	Subpgm

10.0 CCR 209 Capitalized value on static adhoc

The capitalized value field will be added in NEMS. This field should be available for display from the static adhoc programs (Daily Transaction, Equipment, History, Monthly Transaction, and Transfer by ECN).

Description of Change

Changes were made to add the Capitalization amount field to the Daily Transaction, Equipment, History, Monthly Transaction adhoc screens; Previous Capitalization amount field to the Daily Transaction and Monthly Transaction adhoc screens; and Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost fields to the Daily Transaction, Equipment, History, and Monthly Transaction adhoc screens.

Functional Impact

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

Validation Procedures

- Select the Daily Transaction file by ECN from the adhoc inquiries menu.
Expected result: Daily Transaction adhoc is displayed with the Capitalization Amount, Previous Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields displayed on the third screen.
- Select the Equipment file by ECN from the adhoc inquiries menu.
Expected result: Equipment adhoc is displayed with the Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields displayed on the third screen.
- Select the History file by ECN from the adhoc inquiries menu.
Expected result: History adhoc is displayed with the Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields displayed on the third screen.
- Select the Monthly Transaction file by ECN from the adhoc inquiries menu.
Expected result: Monthly Transaction adhoc is displayed with the Capitalization Amount, Previous Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields displayed on the third screen.
- Select the Transfer file by ECN from the adhoc inquiries menu.
Expected result: Transfer adhoc is displayed with the Capitalization Amount field displayed on the third screen.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
ADH900P1	NEMS Daily Transaction file adhoc by ECN	Program
ADH920P1	Equipment file adhoc by ECN	Program
ADH940P1	NEMS History file adhoc by ECN selection	Program
ADH960P1	NEMS Monthly Transaction file adhoc by ECN	Program
ADH980P1	NEMS Transfer file adhoc by ECN	Program

11.0 CCR 210 Capitalized value on dynamic adhoc

The capitalized value field will be added in NEMS. This field should be available for display from the static adhoc programs (Daily Transaction, Equipment, History, Monthly Transaction, and Transfer).

Description of Change

Changes were made to add the Capitalization amount field to the Daily Transaction, Equipment, History, Monthly Transaction adhoc selection screens; Previous Capitalization amount field to the Daily Transaction and Monthly Transaction adhoc selection screens; and Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost fields to the Daily Transaction, Equipment, History, and Monthly Transaction adhoc selection screens.

Functional Impact

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

Validation Procedures

- Select the Daily Transaction file by Field from the adhoc inquiries menu. Select the Capitalization Amount, Previous Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct to be displayed.
Expected result: NEMS DAILY TRANS FILE ADHOC BY FIELD screen is displayed with the Capitalization Amount, Previous Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields.
- Select the Equipment file by Field from the adhoc inquiries menu. Select the Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields to be displayed.
Expected result: EQUIPMENT FILE ADHOC BY FIELD screen is displayed with the Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct.
- Select the History file by Field from the adhoc inquiries menu. Select the Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields to be displayed.
Expected result: HISTORY FILE ADHOC BY FIELD is displayed with the Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct.
- Select the Monthly Transaction file by Field from the adhoc inquiries menu. Select the Capitalization Amount, Previous Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields to be displayed.
Expected result: MONTHLY TRANSACTION FILE ADHOC BY FIELD screen is displayed with the Capitalization Amount, Previous Capitalization Amount, Org Cost Acct, Prog Cost Acct, Prev Org Cost Acct, and Prev Prog Cost Acct fields displayed.

- Select the Transfer file by Field from the adhoc inquiries menu. Select the Capitalization Amount field to be displayed.
Expected result: Transfer adhoc is displayed with the Capitalization Amount field.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
ADH910P2	Daily Transaction Dynamic Adhoc	Program
ADH910P4	Daily Transaction Dynamic Adhoc	Program
ADH930P2	Equipment File Adhoc by Field	Program
ADH930P4	Equipment File Adhoc by Field	Program
ADH950P2	History File Adhoc by Field	Program
ADH950P4	History File Adhoc by Field	Program
ADH970P2	Monthly Transaction Adhoc by Field	Program
ADH970P4	Monthly Transaction Adhoc by Field	Program
ADH981P2	Transfer File Dynamic Adhoc	Program
ADH981P4	Transfer File Dynamic Adhoc	Program
ADH990P1	Dynamic Adhoc	Program
ADH990P2	Dynamic Adhoc	Program
ADH991P1	Dynamic Adhoc	Program
ADH991P2	Dynamic Adhoc	Program
ADH993P1	Dynamic Adhoc	Program
ADH993P2	Dynamic Adhoc	Program
ADH994P1	Dynamic Adhoc	Program
ADH994P2	Dynamic Adhoc	Program
ADH995P1	Dynamic Adhoc	Program
ADH995P2	Dynamic Adhoc	Program
RPT955P2	Dynamic Adhoc Batch Report	Program
RPT955P3	Dynamic Adhoc Batch Report	Program
RPT955P4	Dynamic Adhoc Batch Report	Program
RPT955P5	Dynamic Adhoc Batch Report	Program
RPT955P6	Dynamic Adhoc Batch Report	Program
RPT955P7	Dynamic Adhoc Batch Report	Program
RPT955P8	Dynamic Adhoc Batch Report	Program
RPT955P9	Dynamic Adhoc Batch Report	Program

12.0 CCR 211 Pop-up window during inventory close

Currently when closing an inventory there is not a process to let the user verify that they really want to close the inventory. This has caused several inventories to be closed inadvertently.

Description of Change

A change was made to add a confirmation message before the inventory is scheduled to be closed.

Functional Impact

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

Validation Procedures

- Select the option to close the inventory. On the inventory close screen press ENTER.
Expected result: A message will be displayed prompting for confirmation to close the inventory.
- Enter a 'X' in the confirmation and press ENTER.
Expected result: The Inventory Main Menu will be displayed with a message indicating the inventory was not closed.
- Select the option to close the inventory. On the inventory close screen press ENTER.
Expected result: A message will be displayed prompting for confirmation to close the inventory.
- Enter a 'Y' in the confirmation and press ENTER.
Expected result: The Inventory Main Menu will be displayed with a message indicating the inventory is scheduled to be closed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
INVCLSP1	Schedule Inventory cycle to be closed	Program

13.0 CCR 212 Status of a transaction for each custodian in Inventory

Mask in code only allows entry of Inventory transaction. Since the implementation of Inventory by Exception a discrepancy may be cleared by NEMS and PCM transactions.

Description of Change

A change was made to allow NEMS and PCM transactions that clear a discrepancy to be displayed.

Functional Impact

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

Validation Procedures

- Display a transaction status for a NEMS transaction (example: 26).
Expected result: STATUS OF TRANSACTION: 26 screen is displayed.
- From this screen display a transaction status for a PCM transaction (example: C29).
Expected result: STATUS OF TRANSACTION: C29 screen is displayed.
- Display a transaction status for a PCM transaction (example: C29).
Expected result: STATUS OF TRANSACTION: C29 screen is displayed.
- From this screen display a transaction status for a PCM transaction (example: C29).
Expected result: STATUS OF TRANSACTION: C29 screen is displayed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
SSTTSTP1	Status of a transaction for each custodian	Program

14.0 CCR 216 Add transaction I18 (Receipt from not previously meeting criteria for tagging)

Adding the I18 transaction would help in performing Inventory.

Description of Change

A change was made to add transaction I18 to the inventory system.

Functional Impact

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

Validation Procedures

- Validate that transaction I18 is available from the ADD TRANSACTION MENU in the Inventory Subsystem.
Expected result: Transaction I18 should be available from the ADD TRANSACTION MENU.
- Perform an I18 transaction on an ECN that is an overage.
Expected result: The I18 transaction should process normally and upon completion of the transaction a message should be displayed indicating the ECN has been added.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRNI18P1	Add transaction I18 (Receipt from not previously meeting criteria for tagging)	Program

15.0 CCR 220 Inventory Error Message for C26 and C31

TRNC26P1 and TRNC31P1 have a problem with the inventory error message stopping the processing of these 2 transactions. This occurs when the inventory process is being done by custodian account and not when the inventory is being done by location. This process tries to check the bar code file for overages and never checks the inventory file for underage, because of inventory by exception the bar file will not have overages for items that are currently on the equipment file.

Description of Change

Code was changed to remove the hard edit for inventory discrepancies (overages and underages).

Functional Impact

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

Validation Procedures

- Must be undergoing inventory by account. Execute a transaction 26 that is an underage.
Expected result: A warning message will be received instead of a hard edit.
- Must be undergoing inventory by account. Execute a transaction 31 that is an underage.
Expected result: A warning message will be received instead of a hard edit.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRNC26P1	Change Transaction 26 (Custodian Account Change)	Program
TRNC31P1	Change Transaction 31 (User Number Change)	Program

APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS SOFTWARE RELEASE 4.3

Introduction

Release information:

System Name: NEMS
Release Number: 4.3
Release Date: April 30, 1999
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 NASA Central Distribution Facility as NASA data sets.

- AIMS.NEMS.PROD.REL430.REL0499.SRC
- AIMS.NEMS.PROD.REL430.REL0499.PRD
- AIMS.NEMS.PROD.REL430.REL0499.DOC
- AIMS.NEMS.PROD.REL430.REL0499.TBL

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/Object Code
- 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/Object Code

2.1 Copy Source Code

A. Source code is installed in three separate libraries. Source code for programs modified in this release version were unloaded in the NATUNLD format, these programs all have specific destination libraries as shown below. All the NEMS programs have a destination of NEMS; NEMSINV programs have a destination of NEMSINV and NEMSPCM have a destination of NEMSPCM.

1. Load the NEMS source library from dataset:
AIMS.NEMS.PROD.REL430.REL0499.SRC.
The source programs were unloaded using the Natural utility NATUNLD.

The NEMS programs:

1. ADH900P1	NEMS Daily Transaction File Adhoc by ECN
2. ADH910P2	Daily Transaction Dynamic Adhoc
3. ADH910P4	Daily Transaction Dynamic Adhoc
4. ADH920P1	Equipment File Adhoc by ECN
5. ADH930P2	Equipment File Adhoc by Field
6. ADH930P4	Equipment File Adhoc by Field
7. ADH940P1	NEMS History File Adhoc ECN Selection
8. ADH950P2	History File Adhoc By Field
9. ADH950P4	History File Adhoc By Field
10. ADH960P1	NEMS Monthly Transaction File Adhoc by ECN
11. ADH970P2	Monthly Transaction Adhoc by Field
12. ADH970P4	Monthly Transaction Adhoc by Field
13. ADH980P1	NEMS Transfer File Adhoc by ECN
14. ADH981P2	Transfer File Dynamic Adhoc
15. ADH981P4	Transfer File Dynamic Adhoc
16. ADH990P1	Dynamic Adhoc
17. ADH990P2	Dynamic Adhoc
18. ADH991P1	Dynamic Adhoc
19. ADH991P2	Dynamic Adhoc
20. ADH993P1	Dynamic Adhoc
21. ADH993P2	Dynamic Adhoc
22. ADH994P1	Dynamic Adhoc
23. ADH994P2	Dynamic Adhoc
24. ADH995P1	Dynamic Adhoc
25. ADH995P2	Dynamic Adhoc
26. CAPITAL	Load The Capitalization Value Amount From Cost
27. MSA002P1	Periodic Purge Of Historical File

28.MSD001P1	Copy NEMS-DAILY-TRANS to NEMS-MONTH-TRANS file
29.MSD006P1	Items Transferred to Historical File
30.MSD008P1	Daily Transaction Extract Program
31.MSD008P5	Month to Date Extract Program
32.MSD008P8	Recompile of Transferred Data
33.MSD008P9	Recompile of Transferred Data
34.MSD011P1	Create IFM Flat File
35.MSD011P2	Modify IFM File Transmission Name
36.MSM002P1	Copy NEMS-MONTH-TRANS to NEMS-CUMM-TRANS and Purge
37.MSX001P1	Copy NEMS-CUMM-TRANS to NEMS-PRIOR-MONTH
38.NEIFM010	Load Table 010 for IFM
39.NEIFM2MA	
40.NEIFM2NA	IFMP window
41.NEMS	NEMS Start Program
42.RPT010P1	Daily Transaction Register (By Trans No)
43.RPT011P1	Daily Transaction Register (By Trans No Exploded)
44.RPT012P1	Daily Transaction Register (By ECN)
45.RPT013P1	Daily Transaction Register (By Entry Ref No)
46.RPT200P1	Capital Equipment Type Account Report
47.RPT201P1	Capital Equipment Type Account Report
48.RPT202P1	Capital Equipment Type Account Report
49.RPT400P1	Financial Reconciliation Summary
50.RPT410P1	1324 - Controlled Equipment Report
51.RPT500P1	ECN Detail Item Report
52.RPT501P1	ECN Detail Item Report
53.RPT955P2	Dynamic Adhoc Batch Report
54.RPT955P3	Dynamic Adhoc Batch Report
55.RPT955P4	Dynamic Adhoc Batch Report
56.RPT955P5	Dynamic Adhoc Batch Report
57.RPT955P6	Dynamic Adhoc Batch Report
58.RPT955P7	Dynamic Adhoc Batch Report
59.RPT955P8	Dynamic Adhoc Batch Report
60.RPT955P9	Dynamic Adhoc Batch Report
61.TRNADDP1	Add Transaction Processor
62.TRNDELP1	Delete Transaction Processor
63.TRN000P1	Equipment File (Transaction) Update Menu
64.TRN004P1	Add Transaction 04 (Receipt by Transfer-From NASA Installation)
65.TRN006P1	Add Transaction 06 (Receipt by Transfer-From Contractor)
66.TRN013P1	Add Transaction 13 (Receipt from Excess)
67.TRN014P2	Transaction 14 Processing Program
68.TRN015P1	Add Transaction 15 (Receipt From Return of Record from Historical File)
69.TRN019P1	Add Transaction 19 (Reinstating Items Previously Lost

	on Survey)
70. TRN021P2	Transaction 21 Processing Program
71. TRN025P1	Change Transaction 25 (Cost Change)
72. TRN026P1	Change Transaction 26 (Custodian Account Change)
73. TRN029P1	Change Transaction 29 (Equipment Location Change)
74. TRN056P1	Change Transaction 56 (Repair Update Change)
75. TRN060P2	Change Transaction 60 (NASA Held Equipment Record Data Change)
76. UNLOADPA	Unload IFM Tables to work file
77. UPLOADPA	Upload IFM Tables from work file
78. UPTBLS02	Table Update Utility

will be loaded to the application library NEMS, replacing any existing programs of the same name.

2. Load the NEMSINV source library from dataset:
AIMS.NEMS.PROD.REL430.REL0499.SRC.
The source programs were unloaded using the Natural utility NATUNLD. The NEMSINV programs:

1. INV	Inventory Startup Program
2. INVCLSP1	Schedule Inventory Cycle to be Closed
3. NEIFM2NA	IFMP Window
4. STTSTP1	Status of a Transaction for Each Custodian
5. TRNIADP1	Add Transaction Processor
6. TRNIDL1P1	Delete Transaction Processor
7. TRNI04P1	Add Transaction I04 (Receipt By Transfer-From NASA Installation)
8. TRNI06P1	Add Transaction I06 (Receipt By Transfer-From Contractor)
9. TRNI13P1	Add Transaction I13 (Receipt From Excess)
10. TRNI14P2	Transaction I14 Processing Program
11. TRNI14P3	Transaction I14 Processing Program
12. TRNI15P1	Add Transaction I15 (Receipt From Return Of Record From Historical File)
13. TRNI18P1	Add Transaction I18 (Receipt From Not Previously Meeting Criteria For Tagging)
14. TRNI19P1	Add Transaction I19 (Reinstating Items Previously Lost On Survey)

will be loaded to the application library NEMSINV, replacing any existing programs of the same name.

3. Load NEMSPCM source library from dataset:
AIMS.NEMS.PROD.REL430.REL0499.SRC.

The source programs were unloaded using the Natural utility NATUNLD. The NEMSPCM Programs:

1. NEIFM2NA IFMP Window
2. NEIFM2NB IFMP Window
3. PCMMAP
4. PCM000LD
5. PCM000LE
6. PCM000L3
7. TRNC26M1
8. TRNC26N1 Change Transaction 26
9. TRNC26P1 Change Transaction 26 (Custodian Account Change)
10. TRNC29P1 Change Transaction 29 (Equipment Location Change)
11. TRNC31P1 Change Transaction 31 (User Number Change)
12. TRNC38P1 Change Transaction 38 (Borrowed Out)
13. TRNC39P1 Change Transaction 39 (Borrowed Out-Returned)
14. TRNC40P1 Change Transaction 40 (Loan/Lease Out)
15. TRNC41P1 Change Transaction 41 (Loaned/Leased Out-Returned)
16. TRNC42P1 Change Transaction 42 (Loan Pool Out)
17. TRNC43P1 Change Transaction 43 (Loan Pool Out-Returned)
18. TRNC52M1
- 19. TRNC52N1 Change Transaction 52**
20. TRNC52P1 Change Transaction 52 (Excess Equipment Turn-In by Custodian)
21. TRNC60P2 Change Transaction 60 (NASA Held Equipment Data Change)
22. TRNC65P1 Delete Transaction 65 (Transfer to Another NASA Installation)
23. TRNC66P1 Delete Transaction 66 (Transfer to Other Government Agency)
24. TRNC67P1 Delete Transaction 67 (Transfer Of GFE to a Contractor)
25. TRNC69P1 Delete Transaction 69 (Lease In-Returned)
26. TRNC71P1 Delete Transaction 71 (Survey - Missing Equipment)
27. TRNC72P1 Delete Transaction 72 (Decontrol - Removal of Tags)
28. TRNC73P1 Delete Transaction 73 (Deletes Resulting from Assembly/Disassembly)
29. TRNUPDP1 NEMS Update Transaction from the Pending File Records
30. TRNUPDP6 Add Daily Transaction Record
31. TRNUPDP7 Add History Record
32. TRNUPDS1 NEMSPCM Display Equipment and Pending File

will be loaded to the application library NEMSPCM, replacing any existing programs of the same name.

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	3
MAPS	4
HELP ROUTINES	0
SUBROUTINES	0
SUBPROGRAMS	9
PROGRAMS	108
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	124

2.2 List of Source Code Modifications

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

Added Modules:

CAPITAL	Program
MSD011P1	Program
MSD011P2	Program
NEIFM010	Program
TRNC26N1	Subprogram
TRNC52N1	Subprogram
TRNI18P1	Program

Modified Modules:

ADH990P1	Program
ADH990P2	Program
ADH991P1	Program
ADH991P2	Program
ADH993P1	Program
ADH993P2	Program
ADH994P1	Program
ADH994P2	Program
ADH995P1	Program
ADH995P2	Program
MSX001P1	Program
RPT955P2	Program
RPT955P3	Program
RPT955P4	Program

RPT955P5	Program
RPT955P6	Program
RPT955P7	Program
RPT955P8	Program
RPT955P9	Program
ADH900P1	Program
ADH910P2	Program
ADH910P4	Program
ADH920P1	Program
ADH930P2	Program
ADH930P4	Program
ADH940P1	Program
ADH950P2	Program
ADH950P4	Program
ADH960P1	Program
ADH970P2	Program
ADH970P4	Program
ADH980P1	Program
ADH981P2	Program
ADH981P4	Program
INV	Program
INVCLSP1	Program
MSA002P1	Program
MSD001P1	Program
MSD006P1	Program
MSD008P1	Program
MSD008P5	Program
MSD008P8	Program
MSD008P9	Program
MSM002P1	Program
NEIFM2MA	Map
NEIFM2NA	Subprogram
NEIFM2NA	Subprogram
NEIFM2NA	Subprogram
NEIFM2NB	Subprogram
NEMS	Program
PCM000L3	Local
PCM000LD	Local
PCM000LE	Local
PCMMAP	Map
RPT010P1	Program
RPT011P1	Program
RPT012P1	Program
RPT013P1	Program
RPT200P1	Program
RPT201P1	Program

RPT202P1	Program
RPT400P1	Program
RPT410P1	Program
RPT500P1	Program
RPT501P1	Program
SSTTSTP1	Program
TRN000P1	Program
TRN004P1	Program
TRN006P1	Program
TRN013P1	Program
TRN014P2	Program
TRN015P1	Program
TRN019P1	Program
TRN021P2	Program
TRN025P1	Program
TRN026P1	Program
TRN029P1	Program
TRN056P1	Program
TRN060P2	Program
TRNADDP1	Program
TRNC26M1	Map
TRNC26P1	Program
TRNC29P1	Program
TRNC31P1	Program
TRNC38P1	Program
TRNC39P1	Program
TRNC40P1	Program
TRNC41P1	Program
TRNC42P1	Program
TRNC43P1	Program
TRNC52M1	Map
TRNC52P1	Program
TRNC60P2	Program
TRNC65P1	Program
TRNC66P1	Program
TRNC67P1	Program
TRNC69P1	Program
TRNC71P1	Program
TRNC72P1	Program
TRNC73P1	Program
TRNDELP1	Program
TRNI04P1	Program
TRNI06P1	Program
TRNI13P1	Program
TRNI14P3	Program
TRNI15P1	Program

TRNI19P1	Program
TRNIADP1	Program
TRNIDL1	Program
TRNUPDP1	Program
TRNUPDP6	Subprogram
TRNUPDP7	Subprogram
TRNUPDS1	Subprogram
UNLOADPA	Program
UPLOADPA	Program
UPTBLS02	Program

Deleted Modules:

MSD408P1	Program
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2.3 Copy Object Modules

Not applicable with this release.

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 4.3.0. Details for changes in this release can be found under paragraph 4.1.3 Physical File Changes or by performing Predict reporting on the keyword NEMS-4.3.0.

Use SYSDICBE to load the PREDICT modifications from the dataset AIMS.NEMS.PROD.REL430.REL0499.PRD.

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

NEMS-DAILY-TRANS
 NEMS-EQUIPMENT
 NEMS-HISTORY
 NEMS-IFM-PROP-INT-FILE
 NEMS-IFM-PROP-INT-TBL
 NEMS-MONTH-TRANS
 NEMS-TRANSFER

ADAINV INVERT FILE=145
 ADAINV TEMPSIZE=??,SORTSIZE=??
 ADAINV SUPDE='AI=AA(1,3),AB(1,30)'

Add the following fields:

NEMS-IFM-PROP-INT-TBL		File # 145							
Ty	L	Field ID	F	Length	Occ	D	U	DB	S
*-	-	-----	*-	-----	-----	*	*	--	*
1		IFM-VARIABLE-GL-ACCT-CODE	N	4.0				AJ	N
1		IFM-DOC-TYPE-CODE	A	2.0				AK	N
1		NSMS-OCA-PCA-CENTER-IND	A	1.0				AH	N

ADADBS NEWFIELD FILE=145
 ADADBS FNDEF='01,AJ,4,U,NU'
 ADADBS FNDEF='01,AK,2,A,NU'
 ADADBS FNDEF='01,AH,1,A,NU'

Add the following fields:

NEMS-DAILY-TRANS		File # 187							
Ty	L	Field ID	F	Length	Occ	D	U	DB	S
*-	-	-----	*-	-----	-----	*	*	--	*
1		CAPITALIZATION-AMT	N	9.2				DN	N
1		PREV-CAPITALIZATION-AMT	N	9.2				DO	N

ADADBS NEWFIELD FILE=187
 ADADBS FNDEF='01,DN,11,U,NU'
 ADADBS FNDEF='01,DO,11,U,NU'

Add the following field:

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

ADADBS NEWFIELD FILE=188
 ADADBS FNDEF='01,DC,11,U,NU'

Add the following field:

NEMS-HISTORY		File # 190							
Ty	L	Field ID	F	Length	Occ	D	U	DB	S
*-	-	-----	*-	-----	-----	*	*	--	*

```
1 CAPITALIZATION-AMT          N          9.2          DC N
```

```
ADADBS NEWFIELD FILE=190
ADADBS FNDEF='01,DC,11,U,NU'
```

Add the following fields:

```
NEMS-MONTH-TRANS          File # 193
  Ty L Field ID          F Length  Occ  D U DB S
  * - - - - -          * - - - - -          * * - - *
    1 CAPITALIZATION-AMT      N    9.2          DN N
    1 PREV-CAPITALIZATION-AMT N    9.2          DO N
```

```
ADADBS NEWFIELD FILE=193
ADADBS FNDEF='01,DC,11,U,NU'
ADADBS FNDEF='01,DO,11,U,NU'
```

NOTE: For centers using the NEMS-PRIOR-MONTH file the same changes listed above for the NEMS-MONTH-TRANS should be made to the NEMS-PRIOR-MONTH file.

Add the following field:

```
NEMS-TRANSFER          File # 196
  Ty L Field ID          F Length  Occ  D U DB S
  * - - - - -          * - - - - -          * * - - *
    1 CAPITALIZATION-AMT      N    9.2          BE N
```

```
ADADBS NEWFIELD FILE=196
ADADBS FNDEF='01,BE,11,U,NU'
```

5.0 Catalog Source Code

The following modules should be changed before the CATALL is run. Modules NEMS, INV, and PCM 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 40 NATURAL 0303 errors for modules that begin with RPT* that concern page overflow and 32 programs will produce NATURAL 0002 errors. Program MSC005P1 will also not compile. There should be a total of 73 NATURAL errors.

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

- To compile the NATURAL 0303 errors correctly, run another CATALL 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 CATALL 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.

Run a batch job to catalog (CATALL) all modules in the NEMSINV library using the NASA Batch standard parameters. It is not necessary to catalog the Global Data Area (GDA). There should be no errors received.

Run a batch job to catalog (CATALL) all modules in the NEMSPCM library using the NASA Batch standard parameters. It is not necessary to catalog the Global Data Area (GDA). There should be two NATURAL 0043 errors received. See 9.0 Installation Checklist for instructions on how to correct these errors.

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

6.0 Post-Predict Data Conversion

Not applicable with this release

7.0 Perform Release-Specific Procedures

7.1 Run UPTBLS02 to update tables 252, S02, S07, and S10

252 – Change installation 0303 to John H. Glenn Research Center (GRC)

S02 – Change 9 error messages

S07 – Add 2 messages

S10 – Add transaction I18 (Receipt from not previously meeting criteria for tagging – (O)

7.2 Run CAPITAL to populate the Capitalization Amount

If the COST on the NEMS-EQUIPMENT file is \$100,000 or greater then the CAPITALIZATION-AMT will be populated with the amount from the COST field

7.3 Install Core Table (IFM)

Perform the following procedures to implement the modifications to NEMS Core Table (IFM). Load the IFM tables using the Sample JCL in Appendix E from the dataset: AIMS.NEMS.PROD.REL430.REL0499.TBL.

To activate the IFM processing table 010 must be loaded with a non-blank value. Run program NEIFM010 to load a value in table 010.

8.0 Local JCL Mods

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

```
JCLDD 100410XXXX X XX//CMWKF01 DD SYSOUT=(A,INTRDR),DCB=(RECFM=F,LRECL=80,BLKSIZE=6160)
JCLDD 100420XXXX X XX//CMWKF02 DD DSN=MSIRM.NEMS.JOURNAL,DISP=MOD
JCLMSM02100430 M //CMWKF03 DD DUMMY,DCB=BLKSIZE=611
JCLMSM02100440 M //CMWKF04 DD DSN=MSIRM.NEMS.MNTHTRNS(+1),
JCLMSM02100441 M // DISP=(NEW,CATLG,DELETE),DCB=(NACCADM.MD,
JCLMSM02100442 M // RECFM=FB,LRECL=611,BLKSIZE=6110),UNIT=SYSDA,
JCLMSM02100443 M // SPACE=(CYL,(1,3))
JCLDD 100470 X X //CMWKF07 DD DISP=(,DELETE),
JCLDD 100471 X X // UNIT=SYSDA,SPACE=(CYL,(1,3)),DCB=RECFM=FB
JCLMSM01100472 M //CMWKF07 DD DISP=(,DELETE),
JCLMSM01100473 M // DCB=(RECFM=FB,LRECL=140,BLKSIZE=1400),
JCLMSM01100474 M // UNIT=SYSDA,SPACE=(CYL,(1,1))
JCLMSA02100480 M //CMWKF08 DD DSN=MSIRM.NEMS.HISTDATA(+1),
JCLMSA02100481 M // DISP=(NEW,CATLG,DELETE),DCB=(NACCADM.MD,
JCLMSA02100482 M // RECFM=FB,LRECL=928,BLKSIZE=9280),UNIT=SYSDA,
JCLMSA02100483 M // SPACE=(CYL,(1,3))
JCLDD 100490 X //CMWKF09 DD DSN=&&NEMSWRK9,DISP=(,DELETE),
JCLDD 100491 X // UNIT=SYSDA,SPACE=(CYL,(1,1)),DCB=(RECFM=FB)
JCLDD 100495 X //CMWKF10 DD DSN=&&NEMSWK10,DISP=(,DELETE),
JCLDD 100496 X // UNIT=SYSDA,SPACE=(CYL,(5,2)),DCB=(RECFM=FB)

JCLDD 400410XXX XX//CMWKF01 DD SYSOUT=(A,INTRDR),DCB=(RECFM=F,LRECL=80,BLKSIZE=6160)
JCLDD 400420XXX XX//CMWKF02 DD DSN=MSIRM.NEMS.JOURNAL,DISP=MOD
JCLDD 400422 X //CMWKF01 DD DSN=MSIRM.NEMSDD.IFMEXT,
JCLDD 400424 X // DISP=(OLD,KEEP,KEEP),SPACE=(TRK,(5,3),RLSE),UNIT=SYSDA,
JCLDD 400426 X // DCB=(RECFM=FB,LRECL=1200,BLKSIZE=1200)
JCLDD 400428 X //CMWKF16 DD DSN=MSIRM.NEMSDD.IFMFTP.SYSIN(+0),DISP=OLD
JCLDD 400430 X //CMWKF17 DD DSN=MSIRM.NEMSDD.IFMFTP.SYSIN(+1),DISP=(NEW,CATLG),
JCLDD 400432 X // DCB=(RECFM=FB,LRECL=80,BLKSIZE=800),
JCLDD 400434 X // SPACE=(TRK,(3,1),RLSE),UNIT=SYSDA
JCLDD 400510XXX XX//CMSYNIN DD *
```

```

JCLNATLG400511X X      X NEMS,NEBATCH
JCLNATLG400512X X      X %*
JCLNATLG400513X X      X NEBATCH
JCLPGM  400530X          JCLCHKP1 UTIL 01 8
JCLPGM  400532 X          JCLCHKP1 UTIL 02 8
JCLPGM  400533 X          MSD011P1
JCLPGM  400534 X          JCLCHKP1 UTIL 03 8
JCLPGM  400538          JCLCHKP1 UTIL 05 8
JCLPGM  400539          D MSD004P1
JCLPGM  400540          X JCLCHKP1 UTIL 11 8

```

On JCLECARD400599 the X in column 3 has been removed.

```

JCLNAT  400580XXX      XXFIN
JCLECARD400581 X      XX/*
JCLEEXEC 400582          //FTP02      EXEC PGM=FTP,COND=(4,LE),PARM='(EXIT'
JCLDD  400584          //SYSUDUMP DD SYSOUT=*
JCLDD  400586          //SYSPRINT DD SYSOUT=*
JCLDD  400588          //FTPSLOG  DD SYSOUT=*
JCLDD  400590          //FTP0UT   DD SYSOUT=*
JCLDD  400592          //SYSIN    DD DSN=MSIRM.NEMSDD.IFMFTP.SYSIN(+1),DISP=(OLD)
JCLECARD400599XX      XX/*
JCLEEXEC 500010XXXX X  XX//NEMSNAT3 EXEC N02Z,DD='DD=-000',COND=ONLY

```

9.0 Installation Checklist

1.0 Back Up Existing Data

2.1 Copy Source Code

4.0 Install Predict

5.0 Catalog Source Code

Update the Password to the NEMS-PCM-AUTH file in PCM programs:

MNUC00P1; MNUC01P1; RPTSUBP1; TRNC00P1; TRNC26P1; TRNC52P1;

TRNUPDP1. This step is optional if the Center chooses not to put a password on the NEMS-PCM-AUTH file.

A. Find out from your DBA the ADABAS Security password assigned to the NEMS-PCM-AUTH file at your Installation.

B. Logon to the NEMSPCM and use the Scan utility to search the NEMSPCM programs listed above for the word:

PASSWORD = 'NEMSPCM' and replace it with:

PASSWORD = 'Your site Password'. This scan and replace will change all references to the password, found in the newly released NEMS Release Version 4.3.0 modules, with your Installation's password.

7.0 Perform Release-Specific Procedures

7.1 Run UPTBLS02 to update tables 252, S02, S07, and S10

7.2 Run CAPITAL to populate the Capitalization Amount

- 7.3 Install Core Table (IFM)
- 8.0 Local JCL Mods

APPENDIX E - SAMPLE JCL

Sample JCL to Load the IFM Table File

```
//IRIFMUP JOB (MSIRMNEMS002,4201),'UPLOAD IFM',CLASS=D,
//      NOTIFY=USERID,MSGCLASS=A
//*****
//* UPLOADS THE IFM TABLE FILE *
//*****
//DVNPDMS EXEC N01Z
//CMPRINT DD SYSOUT=(A,P3103102)
//CMWKF07 DD DSN=MSIRM.NEMSDD.IFMTBL,
//      DISP=(OLD,KEEP,KEEP)
//CMSYNIN DD *
NDDEVL,MSJOC
%*
MSJOC
UPLOADPA
FIN
/*
//
```

Sample JCL to Unload the IFM Table

```
//IRIFMUN JOB (MSIRMNEMS002,4201),'UNLOAD IFM',CLASS=D,
//      NOTIFY=USERID,MSGCLASS=A
//*****
//* UNLOADS THE IFM TABLE FILE *
//*****
//DVNPDMS EXEC N01Z
//CMPRINT DD SYSOUT=(A,P3103102)
//CMWKF07 DD DSN=MSIRM.NEMSDD.IFMTBL,
//      DISP=(OLD,KEEP,KEEP),
//      DCB=(RECFM=FB,LRECL=20,BLKSIZE=5760),
//      SPACE=(TRK,(5,3),RLSE),
//      UNIT=SYSDA
//CMSYNIN DD *
NDDEVL,MSKKB
%*
MSKKB
UNLOADPA
FIN
/*
//
```