

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

Release 4.1

NASA-NEMS-VDD-13

PrISMS Contract

August 31, 1998



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 4.1**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
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August 31, 1998

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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 4.1 and has an effective release date of August 31, 1998.

1.2 PURPOSE OF THE RELEASE

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

<u>CCR</u>	<u>Title</u>
25	Warning screen for user changes.
74	PCM-Enhancements to TC 39, Borrowed Out Returned, and TC 41 Loan/Lease Out Returned.
91	Need a Report of Expired Dates on Borrow-In from Other NASA Centers.
151	Pending file does not sort.
173	Discrepancy flag removal when processed by inventory by exception.
174	Add descriptors to NEMS-MONTH-TRANS file.
178	IFM interface for NEMS
179	Add COST as descriptor to NEMS-EQUIPMENT file
180	Core modifications for IFMP standard interface
181	Change capitalization amount from \$5000 to \$100,000
196	Inventory by Exception (Add 29 & 56)

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

<u>CCR</u>	<u>Title</u>
165	Processing transaction 72 the error message for inventory by location and inventory by account are reversed.
166	Global Change Date format.
185	Report Effective Date Year.
188	Add transaction, item name not appearing when using previous ECN.
189	ADH999P1 CALLNAT incorrect.

193 Edit mask does not recognize 02 29 as valid date.
195 Incorrect Date format in Current Inventory Status.

1.3 SCOPE

This VDD provides the functional and technical user of NEMS with information regarding the contents, status, and structure of Release 4.1, including the following:

- Changes implemented since Release 4.0.
- 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 September 1998. 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 4.1 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

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 Agency wide 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	25	Warning screen for user changes
2.0	74	PCM-Enhancements to TC 39, borrowed Out Returned, and TC 41 Loan/Lease Out Returned.
3.0	91	Need a Report of Expired Dates on Borrow-In from Other NASA Centers.
4.0	151	Pending File does not sort
5.0	165	Processing transaction 72 the error message for inventory by location and inventory by account are reversed.
6.0	166	Global Change Date Format
7.0	173	Discrepancy flag removal when processed by inventory by exception.
8.0	174	Add descriptors to NEMS-MONTH-TRANS file.
9.0	178	IFM interface for NEMS
10.0	179	Add COST as descriptor to NEMS-EQUIPMENT file
11.0	180	Core modifications for IFMP standard interface
12.0	181	Change capitalization amount from \$5000 to \$100,000
13.0	185	Report Effective Date Year
14.0	188	Add transaction, item name not appearing when using previous ECN
15.0	189	ADH999P1 CALLNAT incorrect
16.0	193	Edit mask does not recognize 02 29 as valid date.
17.0	195	Incorrect Date Format in Current Inventory Status
18.0	196	Inventory By Exception (Add 29 & 56)

Details for the validation procedures follow:

1.0 CCR 25 Warning screen for user changes

(NOTE: This CCR was overridden by changes for CCR 196 Inventory by Exception (Add 29 & 56))

If an account is being inventoried, we get a warning screen when doing user changes but when doing location changes no warning screen come up. The location can still be changed when making user changes.

Description of Change

A warning screen will be displayed when doing location changes when an account is being inventoried

Functional Impact

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

Validation Procedures

- Execute a transaction 29 change on an ECN that is undergoing inventory. Expected result: Screen is displayed with the messages 'CUST-ACCT-NO IS BEING INVENTORIED' and 'WARNING ** DUE TO THIS CHANGE INVENTORY MAY NOT BE CLOSED' (Only if Inventory by Exception is not in place).
- Execute a transaction 29 change on an ECN that is not undergoing inventory. Expected result: Screen is displayed without the messages 'CUST-ACCT-NO IS BEING INVENTORIED' and 'WARNING ** DUE TO THIS CHANGE INVENTORY MAY NOT BE CLOSED'

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN029P1	Change Transaction 29 (Equipment Location Change)	Program

2.0 CCR 74 PCM-Enhancements to TC 39, Borrowed Out Returned, and TC 41 Loan/Lease Out returned.

When items are returned to a center for active use, the status code and zip code should automatically default with an option to change. It should be mandatory to change the building on TC 41, Returned Loan, and Optional to change the building on a TC 39, Returned Borrow. The same (Status Code and Zip Code only) changes should be in NEMS.

Description of Change

In NEMS for transactions 39 and 41 and PCM for transactions C39 and C41 the AVAILABILITY-STATUS-CODE is now defaulted to an 'A' and the ZIP-CODE is defaulted to the center's Zip Code as defined on table 252. In PCM for the C41 transaction it is mandatory to change the building.

Functional Impact

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

Validation Procedures

- In NEMS execute change transaction 39 (Borrowed Out-Returned).
Expected result: Borrowed Out-Returned screen should be displayed with the AVAILABILITY STATUS CODE of 'A' and the LOCATION - ZIP CODE that matches the zip code on the center's 252 table.
- In NEMS execute change transaction 41 (Loaned/Leased Out-Returned).
Expected result: Loaned/Leased Out-Returned screen should be displayed with the AVAILABILITY STATUS CODE of 'A' and the LOCATION - ZIP CODE that matches the zip code on the center's 252 table.
- In PCM execute change transaction 39 (Borrowed Out-Returned).
Expected result: PCM - C39 - Borrowed Out-Returned screen should be displayed with the AVAILABILITY STATUS CODE of 'A' and the LOCATION - ZIP CODE that matches the zip code on the center's 252 table.
- In PCM execute change transaction 41 (Loaned/Leased Out-Returned).
Expected result: PCM - C41 - Loaned/Leased Out-Returned screen should be displayed with the AVAILABILITY STATUS CODE of 'A' and the LOCATION - ZIP CODE that matches the zip code on the center's 252 table. You should also be required to change the building on this transaction.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN039P1	Change Transaction 39 (Borrowed Out-Returned)	Program
TRN041P1	Change Transaction 41 (Loan/Lease Out-Returned)	Program
TRNC39M1		Map
TRNC39P1	Change Transaction 39 (Borrowed Out-Returned)	Program
TRNC41P1	Change Transaction 41 (Loaned/Leased Out-Returned)	Program

3.0 CCR 91 Need a Report of Expired Dates on Borrow-In from Other NASA Centers

There is no way to tell when the loan dates of equipment received as a Borrow-In from other NASA centers on a transaction 20 expired.

Description of Change

Report similar to report 130 was created that will list the loan dates of equipment received as Borrow In from other NASA centers.

Functional Impact

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

Validation Procedures

- Schedule and run report 139 (Borrowed In).
Expected result: Report should contain items that have been borrowed in within the date ranges specified on the parameter screen.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
PRM139P1	Borrowed (In) Equipment Expiration Report Parameter	Program
RPT139P1	Borrowed (In) Equipment Expiration Report	Program

4.0 CCR 151 Pending file does not sort

PCM does not sort the pending file. It would be useful to have a sort by TRANSDATE in order to manage the pending file.

Description of Change

A sort by PEND-ACTION-DATE (TRANS DATE) was added to the Transaction Awaiting Manager Approval and Transactions Awaiting Other Acceptance/Approval screens.

Functional Impact

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

Validation Procedures

- Check the Transactions Awaiting Other Acceptance/Approval.
Expected result: The transactions should be sorted (oldest first).
- Check the Transactions Awaiting Manager Approval
Expected result: The transactions should be sorted (oldest first).

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
SGN003P2	Pending File for Manager	Program
SGN005P1	Pending Transactions by Custodian	Program

5.0 CCR 165 Processing transaction 72 the error message for inventory by location and inventory by account are reversed.

The specific code references when #ACCT-LOC-SW = '1' states if the condition is true move 'cust-acct-no is being inventoried' to the error message and if not true move 'grid location is being inventoried' to the error message. These condition in reality are reversed

Description of Change

The code was changes to if #ACCT-LOC-SW = '1' move 'grid location is being inventoried' to the error message else move 'cust-acct-no is being inventoried' to the error message.

Functional Impact

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

Validation Procedures

- Execute a transaction 72 delete on an ECN that is being inventoried by Custodian Account Number.
Expected result: Message displayed should be 'cust-acct-no is being inventoried'.
- Execute a transaction 72 delete on an ECN that is being inventoried by Grid Location.
Expected result: Message displayed should be 'grid location is being inventoried'.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN072P1	Delete transaction 72 (DECONTROL (REMOVAL OF TAG))	Program

6.0 CCR 166 Global Change Date Format

Screen format requires date in MMDDYYYY format. The database field is stored in YYYYMMDD format. The program edits against MMDDYYYY input and the error message that is displayed upon incorrect input states YYYYMMDD format.

Description of Change

Corrected the input edit rules to reflect the database format of YYYYMMDD.

Functional Impact

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

Validation Procedures

- Execute a transaction 62 (Global Change) using qualifier 10 (DATE INST ACQ). Enter a starting and ending value (date) in the format of YYYYMMDD.

Expected result: The next screen in the Global Change process (TRN062P4) should be displayed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN062P3	Qualifier Range Specification Program	Program

7.0 CCR 173 Discrepancy flag removal when processed by inventory by exception.

When there is an inventory exception and we process an equipment item by exception a message that the inventory may not close is received. This should be changed so that when an equipment item is processed by exception the inventory discrepancy flag should be cleared to prevent the message from occurring.

Description of Change

When the following NEMS change transactions 26, 31, 39, 41, 43, 45, and 46 and PCM change transactions C26, C31, C41, C43, and C45 are processed by inventory exception will remove the inventory discrepancy flag.

Functional Impact

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

Validation Procedures

- Process the following inventory by exception transactions: NEMS: 26, 31, 39, 41, 43, 45, & 46, and PCM: C26, C31, C41, C43, & C45.
Expected result: The inventory discrepancy flag should be removed for the ECN.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
(NEMS Modules)		
TRNIEXNA	Inventory By Exception	Subpgm
TRN026P1	Change Transaction 26 (Custodian Account Change)	Program
TRN031P1	Change Transaction 31 (User Number Change)	Program
TRN039P1	Change Transaction 39 (Borrowed Out-Returned)	Program
TRN041P1	Change Transaction 41 (Loan/Lease Out-Returned)	Program
TRN043P1	Change Transaction 43 (Loan Pool Out-Returned)	Program
TRN045P1	Change Transaction 45 (Storage In-Returned)	Program
TRN046P1	Change Transaction 46 (Cap/Sens Code and NSN Change)	Program
(PCM Modules)		
TRNIEXNA	Inventory By Exception	Subpgm
TRNUPDP6	Add Daily Transaction Record	Subpgm
TRNWRNS2	Inventory Status Check Subprogram	Subrtn

8.0 CCR 174 Add descriptors to NEMS-MONTH-TRANS file.

Add INST-SUB and CURRENT-DATE as descriptors on the NEMS-MONTH-TRANS file.

Description of Change

The NEMS-MONTH-TRANS file had INST-SUB and CURRENT-DATE added as descriptors.

Functional Impact

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

Validation Procedures

- Read the NEMS-MONTH-TRANS file by INST-SUB and CURRENT-DATE. (There are not any core processes that currently use these descriptors.)
Expected result: The NEMS-MONTH-TRANS file should be able to be read by INST-SUB or CURRENT-DATE.

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

9.0 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>
NEIFM1PA	Create IFM Flat File	Program

10.0 CCR 179 Add COST as descriptor to NEMS-EQUIPMENT file

Add COST as a descriptor to NEMS-EQUIPMENT file.

Description of Change

Cost was added as a descriptor to the NEMS-EQUIPMENT file.

Functional Impact

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

Validation Procedures

- Read the NEMS-EQUIPMENT file by COST. (There are not any core processes that currently use this descriptor.)
Expected result: The NEMS-EQUIPMENT file should be able to be read by COST.

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

11.0 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, 15, 16, 17, 18, 19, and 20. INV - I04, I06, I08, I09, I10, I11, I12, I13, I15, I19, and I20). Code was added to allow the OCA and PCA to be changed for change transactions (NEMS - 25, 26, 29, 31, 38, 39, 40, 41, 42, 43, 46, 52, and 60. INV - I26, I29, I38, I39, I40, I41, and I52. PCM - C26, C29, C31, C38, C39, C40, C41, C42, C43, C52, and C60) 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, I86, and I87. 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, 15, 16, 17, 18, 19, and 20. INV - I04, I06, I08, I09, I10, I11, I12, I13, I15, 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, 26, 29, 31, 38, 39, 40, 41, 42, 43, 46, 52, 60. INV - I26, I29, I38, I39, I40, I41, and I52. PCM - C26, C29, C31, C38, C39, C40, C41, C42, C43, C52, and C60) 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, I86, and I87. 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)		
NEIFM2MA		Map
NEIFM2NA	IFMP Window	Subpgm
TRNADDP1	Add Transaction Processor	Program
TRNDELP1	Delete Transaction Processor	Program
TRN025P1	Change Transaction 25 (Cost Change)	Program
TRN026P1	Change Transaction 26 (Custodian Account Change)	Program
TRN029P1	Change Transaction 29 (Equipment Location Change)	Program
TRN031P1	Change Transaction 31 (User Number Change)	Program
TRN038P1	Change Transaction 38 (Borrowed Out)	Program
TRN039P1	Change Transaction 39 (Borrowed Out-Returned)	Program
TRN040P1	Change Transaction 40 (Loan/Lease Out)	Program
TRN041P1	Change Transaction 41 (Loan/Lease Out-Returned)	Program
TRN042P1	Change Transaction 42 (Loan Pool Out)	Program
TRN043P1	Change Transaction 43 (Loan Pool Out-Returned)	Program
TRN046P1	Change Transaction 46 (Cap/Sens code and NSN Change)	Program
TRN052P1	Change Transaction 52 (Excess Equipment Change)	Program
TRN060P2	Change Transaction 60 (NASA Held Equipment Record Data Change)	Program
TRN063P1	Change Transaction 63 (Reverse Add)	Program
UNLOADPA	Unloads IFM table file	Program
UPLOADPA	Loads IFM table file	Program
(Inventory Modules)		
NEIFM2MA		Map
NEIFM2NA	IFMP Window	Subpgm
TRNIADP1	Add Transaction Processor	Program
TRNIDL1	Delete Transaction Processor	Program
TRNI26P1	Change Transaction I26 (Custodian Account Change)	Program
TRNI29P1	Change Transaction I29 (Equipment Location Change)	Program
TRNI38P1	Change Transaction I38 (Borrowed Out)	Program
TRNI39P1	Change Transaction I39 (Borrowed Out-Returned)	Program
TRNI40P1	Change Transaction I40 (Loan/Lease Out)	Program
TRNI41P1	Change Transaction I41 (Loan/Lease Out-Returned)	Program
TRNI52P1	Change Transaction I52 (Excess Equipment Turn-In By Custodian)	Program
(PCM Modules)		
NEIFM2MA		Map
NEIFM2NA	IFMP Window	Subpgm
NEIFM2NB	IFMP Window	Subpgm
SGN003P2	Pending File for Manager	Program
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

12.0 CCR 181 Change capitalization amount from \$5000 to \$100,000

FMM requirements are raising the capitalization amount from \$5000 to \$100,000.

Description of Change

Code was changed to reflect the new capitalization amount of \$100,000.

Functional Impact

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

Validation Procedures

- Schedule and run report 136 (LEASED EQUIPMENT SUBJECT TO CAPITALIZATION).
Expected result: Report should run and only items \$100,000 or greater should show up on the report.
- Schedule and run report 410 (1324 - CONTROLLED EQUIPMENT REPORT).
Expected result: Report should run and only items \$100,000 or greater should show up on the report.
- Validate that the capitalization amount for items is now \$100,000 instead of \$5000. The following transactions were affected NEMS: 01, 02, 04, 05, 06, 10, 11, 12, 13, 16, 17, 18, 21, 25, 46, and 63; INV: I04, I06, I10, I11, I12, I13, and I21; and PCM: C60.
Expected result: The capitalization amount now starts at \$100,000.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
(NEMS modules)		
RPT136P1	Leased Equipment Subject to Capitalization	Program
RPT410P1	1324 - Controlled Equipment Report	Program
TRN001P1	Add Transaction 01 (Receipt by Purchase-NASA Funded)	Program
TRN002P1	Add Transaction 02 (Receipt by Purchase-OGA Funded)	Program
TRN004P1	Add Transaction 04 (Receipt by Transfer-From NASA Installation)	Program
TRN005P1	Add Transaction 05 (Receipt by Transfer-From OGA)	Program
TRN006P1	Add Transaction 06 (Receipt by Transfer-From Contractor)	Program
TRN010P1	Add Transaction 10 (Receipt from Fabrication)	Program
TRN011P1	Add Transaction 11 (Receipt from Assembly/Disassembly)	Program
TRN012P1	Add Transaction 12 (Receipt from Found on Station)	Program
TRN013P1	Add Transaction 13 (Receipt from Excess)	Program
TRN016P1	Add Transaction 16 (Receipt by Transfer from Real to Personal Property)	Program

TRN017P1	Add Transaction 17 (Receipt from Non-Government Source)	Program
TRN018P1	Add Transaction 18 (Receipt from not Previously Meeting Criteria for Tagging)	Program
TRN021P1	Add Transaction 21 (Receipt - Lease to Purchase)	Program
TRN025P1	Change Transaction 25 (Cost Change)	Program
TRN046P1	Change Transaction 46 (Cap/Sens Code and NSN Change)	Program
TRN063P1	Change Transaction 63 (Reverse Add)	Program
UPDCAPS	Changes CAPS-SENS-CODE	Program

(Inventory modules)

TRNI04P1	Add Transaction I04 (Receipt by Transfer-From NASA Installation)	Program
TRNI06P1	Add Transaction I06 (Receipt by Transfer-From Contractor)	Program
TRNI10P1	Add Transaction I10 (Receipt from Fabrication)	Program
TRNI11P1	Add Transaction I11 (Receipt from Assembly/Disassembly)	Program
TRNI12P1	Add Transaction I12 (Receipt from Found on Station)	Program
TRNI13P1	Add Transaction I13 (Receipt from Excess)	Program
TRNI21P1	Add Transaction I21 (Receipt - Lease to Purchase)	Program

(PCM module)

TRNC60P2	Change Transaction 60 (NASA Held Equipment Data Change)	Program
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13.0 CCR 185 Report Effective Date Year

When the Report Effective Date in NEMS is changed the Year change is not being retained. The current year is defaulting back into the Report Effective Date Year.

Description of Change

Code was changed to use the accept the changed Report Effective Date year.

Functional Impact

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

Validation Procedures

- Schedule a report with a Report Effective Date for next year (99). Look at the reports scheduled to run (You will have to use the DD parm to look at the reports for next year).
Expected result: The report that was scheduled to run will have the correct Report Effective Date.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
RPTSELP2	Report Distribution Menu Program	Program

14.0 CCR 188 Add transaction, item name not appearing when using previous ECN

When doing an Add transaction and using the previous ECN the item name is not being retrieved from history.

Description of Change

Code was changed to allow the item name to be retrieved.

Functional Impact

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

Validation Procedures

- Execute transaction 01 filling in the ECN and PREVIOUS ECN fields.
Expected result: The item name field should be filled in with the item name from the ECN in the previous field.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRN000P1	Equipment file (Transaction) Update Menu	Program

15.0 CCR 189 ADH999P1 Callnat incorrect

Program ADH999P1 is trying to CALLNAT TRNDTEN8 instead of TRNDTENB.

Description of Change

Code was changed to Change the CALLNAT to TRNDTENB.

Functional Impact

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

Validation Procedures

- Execute an adhoc inquiry on the monthly transaction file by field and enter a 'B' to request that the report be run overnight.
Expected result: The report distribution information screen will be displayed. Press enter on this screen and the NEMS MONTHLY TRANS FILE BY ADHOC BY FIELD screen should be displayed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
ADH999P1	Dynamic Adhoc to Batch Report Record Create	Program

16.0 CCR 193 Edit Mask does not recognize 02 29 as valid date

An edit mask of ..MMDD is used to validate months and days within those months. However, in leap years (1996 & 2000) 02 29 would be a valid day. This edit mask does not recognize this date as being valid.

Description of Change

Edit mask was changed to include the year (YYYYMMDD)

Functional Impact

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

Validation Procedures

- For any date field that is in the input format of YY MM DD try to input a date of either 96 02 29 or 00 02 29.
Expected result: Date should pass the edit check.
- For any date field that is in the input format of YY MM DD try to input a date of 98 02 29.
Expected result: Date should not pass the edit check.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
(NEMS Modules)		
ADH999P1	Dynamic Adhoc to Batch Report Record Create	Program
MNTCHGP1	Maintenance Cycle Update	Program
RPTCHGP1	Report Cycle Update	Program
RTPSELP2	Report Distribution Menu Program	Program
TRNDTENB	NEMS Century Addition	Subpgm
TRN001P1	Add Transaction 01 (Receipt by Purchase-NASA Funded)	Program
TRN002P1	Add Transaction 02 (Receipt by Purchase-OGA Funded)	Program
TRN003P1	Add Transaction 03 (Receipt by Purchase-Reported Contractor)	Program
TRN004P1	Add Transaction 04 (Receipt by Transfer-From NASA Installation)	Program
TRN005P1	Add Transaction 05 (Receipt by Transfer-From OGA)	Program
TRN006P1	Add Transaction 06 (Receipt by Transfer-From Contractor)	Program
TRN007P1	Add Transaction 07 (Receipt by Transfer-Reported by Contractor)	Program
TRN008P1	Add Transaction 08 (Receipt from Lease In)	Program
TRN009P1	Add Transaction 09 (Receipt from Loan In)	Program
TRN010P1	Add Transaction 10 (Receipt from Fabrication)	Program
TRN011P1	Add Transaction 11 (Receipt from Assembly/Disassembly)	Program
TRN012P1	Add Transaction 12 (Receipt from Found on Station)	Program

TRN013P1	Add Transaction 13 (Receipt from Excess)	Program
TRN016P1	Add Transaction 16 (Receipt by Transfer from Real to Personal Property)	Program
TRN017P1	Add Transaction 17 (Receipt from Non-Government Source)	Program
TRN018P1	Add Transaction 18 (Receipt from not Previously Meeting Criteria for Tagging)	Program
TRN020P1	Add Transaction 20 (Receipt from Borrow In)	Program
TRN021P1	Add Transaction 21 (Receipt - Lease to Purchase)	Program
TRN027P1	Change Transaction 27 (Date Available Change)	Program
TRN028P1	Change Transaction 28 (Date Lease/Loan/Borrow Out Due Change)	Program
TRN038P1	Change Transaction 38 (Borrowed Out)	Program
TRN040P1	Change Transaction 40 (Loan/Lease Out)	Program
TRN042P1	Change Transaction 42 (Loan Pool Out)	Program
TRN044P1	Change Transaction 44 (Storage In)	Program
TRN052P1	Change Transaction 52 (Excess Equipment Change)	Program
TRN053P1	Change Transaction 53 (Excess Equipment Turn-In by Contractor)	Program
TRN054P1	Change Transaction 54 (Calibration Update Change)	Program
TRN056P1	Change Transaction 56 (Repair Update Change)	Program
TRN057P1	Change Transaction 57 (Off-Site for Repair)	Program
TRN060P3	Change Transaction 60 (NASA Held Equipment Record Data Change)	Program
TRN060P4	Change Transaction 60 (NASA Held Equipment Record Data Change)	Program
TRN061P1	Change Transaction 61 (Contractor Held Equipment Record Data Change)	Program
TRN062P1	Global Change	Program
TRN062P5	Change Field Edit Program	Program
TRN065P1	Delete Transaction 65 (Transfer to Another NASA Installation)	Program
(Inventory Modules)		
INVRSLP2	Report Distribution Menu Program	Program
TRNDTENB	NEMS Century Addition	Subpgm
TRNI04P1	Add Transaction I04 (Receipt by Transfer-From NASA Installation)	Program
TRNI06P1	Add Transaction I06 (Receipt by Transfer-From Contractor)	Program
TRNI08P1	Add Transaction I08 (Receipt from Lease In)	Program
TRNI09P1	Add Transaction I09 (Receipt from Loan In)	Program
TRNI10P1	Add Transaction I10 (Receipt from Fabrication)	Program
TRNI11P1	Add Transaction I11 (Receipt from Assembly/Disassembly)	Program
TRNI12P1	Add Transaction I12 (Receipt from Found on Station)	Program

TRNI13P1	Add Transaction I13 (Receipt from Excess)	Program
TRNI20P1	Add Transaction I20 (Receipt from Borrow In)	Program
TRNI21P1	Add Transaction I21 (Receipt - Lease to Purchase)	Program
TRNI32P1	Update Inventory No Change To Equipment File I32	Program
TRNI33P1	Contractor - Transfer Requested I33	Program
TRNI38P1	Change Transaction I38 (Borrowed Out)	Program
TRNI40P1	Change Transaction I40 (Loan/Lease Out)	Program
TRNI42P1	Change Transaction I42 (Loan Pool Out)	Program
TRNI44P1	Change Transaction I44 (Storage In)	Program
TRNI52P1	Change Transaction I52 (Excess Equipment Turn-In By Custodian)	Program
TRNI56P1	Change Transaction I56 (Repair Update Change)	Program
TRNI57P1	Change Transaction I57 (Off-site for Repair)	Program
TRNI65P1	Change Transaction I65 (Transfer to Another NASA Installation)	Program
(PCM Modules)		
TRNC38P1	Change Transaction 38 (Borrowed Out)	Program
TRNC40P1	Change Transaction 40 (Loan/Lease Out)	Program
TRNC42P1	Change Transaction 42 (Loan Pool Out)	Program
TRNC44P1	Change Transaction 44 (Storage In)	Program
TRNC52P1	Change Transaction 52 (Excess Equipment Turn-in By Custodian)	Program
TRNC56P1	Change Transaction 56 (Repair Update Change)	Program
TRNC57P1	Change Transaction 57 (Off-Site for Repair)	Program
TRNC60P3	Change Transaction 60 (NASA Held Equipment Data Change)	Program
TRNC65P1	Delete Transaction 65 (Transfer to Another NASA Installation)	Program
TRNDTENB	NEMS Century Addition	Subpgm

17.0 CCR 195 Incorrect date format in Current Inventory Status

Wrong field is being displayed for the Current Inventory Status

Description of Change

Code was changed to display the correct date field.

Functional Impact

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

Validation Procedures

- Select the Current Inventory Status.
Expected result: The report distribution information screen will be displayed. Press enter on this screen and the NEMS MONTHLY TRANS FILE BY ADHOC BY FIELD screen should be displayed.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
SSTCISP2	Current Inventory Status Menu	Program

18.0 CCR 196 Inventory By Exception (Add 29 & 56)

Currently NEMS and PCM allow inventory by exception for the following transactions: 26, 31, 39, 41, 43, 45, and 46 (not in PCM). (See CCR 149) Need to add transactions 29 (Equipment Location (Change)) and 56 (Repair Update (Change)).

Description of Change

Code was changed for NEMS and PCM to allow transactions 29 and 56 to be processed as Inventory by Exception transactions.

Functional Impact

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

Validation Procedures

- In NEMS process transactions 29 and 56 that have a discrepancy flag.
Expected result: The Date Inventoried should be updated with the current date and the discrepancy flag should be removed.
- In PCM process transactions C29 and C56 that have a discrepancy flag.
Expected results: The Date Inventoried should be updated with the current date and the discrepancy flag should be removed.

<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
TRNUPDP6	Add Daily Transaction Record	Subpgm
TRNUPDPA	Determine New Values for Date-Inventoried	Program
TRNWRNS2	Inventory Status Check Program	Subrtn

Appendix D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS SOFTWARE RELEASE 4.1

Introduction

Release information:

System Name: NEMS
Release Number: 4.1
Release Date: August 31, 1998
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.REL410.REL0898.SRC
- AIMS.NEMS.PROD.REL410.REL0898.PRD
- AIMS.NEMS.PROD.REL410.REL0898.DOC

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.REL410.REL0898.SRC.
The source programs were unloaded using the Natural utility NATUNLD.

The NEMS programs:

- | | |
|--------------|---|
| 1. ADH999P1 | Dynamic Adhoc to Batch Report Record Create |
| 2. MNTCHGP1 | Maintenance Cycle Update |
| 3. MSD008P1 | Daily Transaction Extract Program |
| 4. MSD008P9 | Recompile Of Transferred Data |
| 5. NEIFM1PA | Create IFM Flat File |
| 6. NEIFM2MA | |
| 7. NEIFM2NA | IFMP Window |
| 8. NEMS | Startup Program |
| 9. PRM139P1 | Borrowed (In) Equipment Expiration Report Parameter |
| 10. RPT136P1 | Leased Equipment Subject to Capitalization |
| 11. RPT139P1 | Borrowed (In) Equipment Expiration Report |
| 12. RPT410P1 | 1324 - Controlled Equipment Report |
| 13. RPTCHGP1 | Report Cycle Update |
| 14. RTPSELP2 | Report Distribution Menu Program |
| 15. TRN000P1 | Equipment file (Transaction) Update Menu |
| 16. TRN001P1 | Add Transaction 01 (Receipt by Purchase-NASA Funded) |
| 17. TRN002P1 | Add Transaction 02 (Receipt by Purchase-OGA Funded) |
| 18. TRN003P1 | Add Transaction 03 (Receipt by Purchase-Reported Contractor) |
| 19. TRN004P1 | Add Transaction 04 (Receipt by Transfer-From NASA Installation) |
| 20. TRN005P1 | Add Transaction 05 (Receipt by Transfer-From OGA) |
| 21. TRN006P1 | Add Transaction 06 (Receipt by Transfer-From Contractor) |
| 22. TRN007P1 | Add Transaction 07 (Receipt by Transfer-Reported by Contractor) |
| 23. TRN008P1 | Add Transaction 08 (Receipt from Lease In) |

24. TRN009P1	Add Transaction 09 (Receipt from Loan In)
25. TRN010P1	Add Transaction 10 (Receipt from Fabrication)
26. TRN011P1	Add Transaction 11 (Receipt from Assembly/ Disassembly)
27. TRN012P1	Add Transaction 12 (Receipt from Found on Station)
28. TRN013P1	Add Transaction 13 (Receipt from Excess)
29. TRN016P1	Add Transaction 16 (Receipt by Transfer from Real to Personal Property)
30. TRN017P1	Add Transaction 17 (Receipt from Non-Government Source)
31. TRN018P1	Add Transaction 18 (Receipt from not Previously Meeting Criteria for Tagging)
32. TRN020P1	Add Transaction 20 (Receipt from Borrow In)
33. TRN021P1	Add Transaction 21 (Receipt - Lease to Purchase)
34. TRN025P1	Change Transaction 25 (Cost Change)
35. TRN026P1	Change Transaction 26 (Custodian Account Change)
36. TRN027P1	Change Transaction 27 (Date Available Change)
37. TRN028P1	Change Transaction 28 (Date Lease/Loan/Borrow Out Due Change)
38. TRN029P1	Change Transaction 29 (Equipment Location Change)
39. TRN031P1	Change Transaction 31 (User Number Change)
40. TRN038P1	Change Transaction 38 (Borrowed Out)
41. TRN039P1	Change Transaction 39 (Borrowed Out-Returned)
42. TRN040P1	Change Transaction 40 (Loan/Lease Out)
43. TRN041P1	Change Transaction 41 (Loan/Lease Out-Returned)
44. TRN042P1	Change Transaction 42 (Loan Pool Out)
45. TRN043P1	Change Transaction 43 (Loan Pool Out-Returned)
46. TRN044P1	Change Transaction 44 (Storage In)
47. TRN045P1	Change Transaction 45 (Storage In-Returned)
48. TRN046P1	Change Transaction 46 (Cap/Sens Code and NSN Change)
49. TRN052P1	Change Transaction 52 (Excess Equipment Change)
50. TRN053P1	Change Transaction 53 (Excess Equipment Turn-In by Contractor)
51. TRN054P1	Change Transaction 54 (Calibration Update Change)
52. TRN056P1	Change Transaction 56 (Repair Update Change)
53. TRN057P1	Change Transaction 57 (Off-Site for Repair)
54. TRN060P2	Change Transaction 60 (NASA Held Equipment Record Data Change)
55. TRN060P3	Change Transaction 60 (NASA Held Equipment Record Data Change)
56. TRN060P4	Change Transaction 60 (NASA Held Equipment Record Data Change)
57. TRN061P1	Change Transaction 61 (Contractor Held Equipment Record Data Change)
58. TRN062P1	Global Change

59. TRN062P3	Qualifier Range Specification Program
60. TRN062P5	Change Field Edit Program
61. TRN063P1	Change Transaction 63 (Reverse Add)
62. TRN065P1	Delete Transaction 65 (Transfer to Another NASA Installation)
63. TRN072P1	Delete transaction 72 (DECONTROL (REMOVAL OF TAG))
64. TRNADDP1	Add Transaction Processor
65. TRNDELP1	Delete Transaction Processor
66. TRNDTENB	NEMS Century Addition
67. TRNIEXNA	Inventory By Exception
68. UNLOADPA	Unloads IFM table file
69. UPDCAPS	Changes CAPS-SENS-CODE
70. UPLOADPA	Loads IFM table file
71. UPTBLS02	Updates Table S02 (Error Messages)

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.REL410.REL0898.SRC.

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

1. INV	Inventory Startup Program
2. INVRSLP2	Report Distribution Menu Program
3. NEIFM2MA	
4. NEIFM2NA	IFMP Window
5. SSTCISP2	Current Inventory Status Menu
6. TRNDTENB	NEMS Century Addition
7. TRNI04P1	Add Transaction I04 (Receipt by Transfer-From NASA Installation)
8. TRNI06P1	Add Transaction I06 (Receipt by Transfer-From Contractor)
9. TRNI08P1	Add Transaction I08 (Receipt from Lease In)
10. TRNI09P1	Add Transaction I09 (Receipt from Loan In)
11. TRNI10P1	Add Transaction I10 (Receipt from Fabrication)
12. TRNI11P1	Add Transaction I11 (Receipt from Assembly/Disassembly)
13. TRNI12P1	Add Transaction I12 (Receipt from Found on Station)
14. TRNI13P1	Add Transaction I13 (Receipt from Excess)
15. TRNI20P1	Add Transaction I20 (Receipt from Borrow In)
16. TRNI21P1	Add Transaction I21 (Receipt - Lease to Purchase)
17. TRNI26P1	Change Transaction I26 (Custodian Account Change)

18. TRNI29P1	Change Transaction I29 (Equipment Location Change)Program
19. TRNI32P1	Update Inventory No Change To Equipment File I32
20. TRNI33P1	Contractor - Transfer Requested I33
21. TRNI38P1	Change Transaction I38 (Borrowed Out)
22. TRNI39P1	Change Transaction I39 (Borrowed Out-Returned)
23. TRNI40P1	Change Transaction I40 (Loan/Lease Out)
24. TRNI41P1	Change Transaction I41 (Loan/Lease Out-Returned)
25. TRNI42P1	Change Transaction I42 (Loan Pool Out)
26. TRNI44P1	Change Transaction I44 (Storage In)
27. TRNI52P1	Change Transaction I52 (Excess Equipment Turn-In By Custodian)
28. TRNI56P1	Change Transaction I56 (Repair Update Change)
29. TRNI57P1	Change Transaction I57 (Off-site for Repair)
30. TRNI65P1	Change Transaction I65 (Transfer to Another NASA Installation)
31. TRNIADP1	Add Transaction Processor
32. TRNIDL1	Delete Transaction Processor

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.REL410.REL0898.SRC.

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

1. NEIFM2MA	
2. NEIFM2NA	IFMP Window
3. NEIFM2NB	IFMP Window
4. PCMMAP	
5. SGN003P2	Pending File for Manager
6. SGN005P1	Pending Transactions by Custodian
7. TRNC26P1	Change Transaction 26 (Custodian Account Change)
8. TRNC29P1	Change Transaction 29 (Equipment Location Change)
9. TRNC31P1	Change Transaction 31 (User Number Change)
10. TRNC38P1	Change Transaction 38 (Borrowed Out)
11. TRNC39M1	
12. TRNC39P1	Change Transaction 39 (Borrowed Out-Returned)
13. TRNC40P1	Change Transaction 40 (Loan/Lease Out)
14. TRNC41P1	Change Transaction 41 (Loaned/Leased Out-Returned)

15. TRNC42P1	Change Transaction 42 (Loan Pool Out)
16. TRNC43P1	Change Transaction 43 (Loan Pool Out-returned)
17. TRNC44P1	Change Transaction 44 (Storage In)
18. TRNC52P1	Change Transaction 52 (Excess Equipment Turn-in By Custodian)
19. TRNC56P1	Change Transaction 56 (Repair Update Change)
20. TRNC57P1	Change Transaction 57 (Off-Site for Repair)
21. TRNC60P2	Change Transaction 60 (NASA Held Equipment Data Change)
22. TRNC60P3	Change Transaction 60 (NASA Held Equipment Data Change)
23. TRNC65P1	Delete Transaction 65 (Transfer to Another NASA Installation)
24. TRNC66P1	Delete Transaction 66 (Transfer to other Government Agency)
25. TRNC67P1	Delete Transaction 67 (Transfer of GFE to a Contractor)
26. TRNC69P1	Delete Transaction 69 (Lease In-Returned)
27. TRNC71P1	Delete Transaction 71 (Survey - Missing Equipment)
28. TRNC72P1	Delete Transaction 72 (Decontrol - Removal of Tags)
29. TRNC73P1	Delete Transaction 73 (Deletes Resulting from Assembly / Disassembly)
30. TRNDTENB	NEMS Century Addition
31. TRNIEXNA	Inventory By Exception
32. TRNUPDP6	Add Daily Transaction Record
33. TRNUPDPA	Determine New Values for Date-Inventoried
34. TRNWRNS2	Inventory Status Check Program

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	0
MAPS	5
HELP ROUTINES	0
SUBROUTINES	1
SUBPROGRAMS	11
PROGRAMS	120
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	137

2.2 List of Source Code Modifications

The following are the modules added, and modified.

Added Modules:

NEIFM1PA	Program
NEIFM2MA	Map
NEIFM2NA	Subpgm
NEIFM2NB	Subpgm
PRM139P1	Program
RPT139P1	Program
TRNIEXNA	Subpgm
UNLOADPA	Program
UPDCAPS	Program
UPLOADPA	Program

Modified Modules:

ADH999P1	Program
INV	Program
INVRSLP2	Program
MNTCHGP1	Program
MSD008P1	Program
MSD008P9	Program
NEMS	Program
PCMMAP	Map
RPT136P1	Program
RPT410P1	Program
RPTCHGP1	Program
RTPSELP2	Program

SGN003P2	Program
SGN005P1	Program
SSTCISP2	Program
TRN000P1	Program
TRN001P1	Program
TRN002P1	Program
TRN003P1	Program
TRN004P1	Program
TRN005P1	Program
TRN006P1	Program
TRN007P1	Program
TRN008P1	Program
TRN009P1	Program
TRN010P1	Program
TRN011P1	Program
TRN012P1	Program
TRN013P1	Program
TRN016P1	Program
TRN017P1	Program
TRN018P1	Program
TRN020P1	Program
TRN021P1	Program
TRN025P1	Program
TRN026P1	Program
TRN027P1	Program
TRN028P1	Program
TRN029P1	Program
TRN031P1	Program
TRN038P1	Program
TRN039P1	Program
TRN040P1	Program
TRN041P1	Program
TRN042P1	Program
TRN043P1	Program
TRN044P1	Program
TRN045P1	Program
TRN046P1	Program
TRN052P1	Program
TRN053P1	Program
TRN054P1	Program
TRN056P1	Program
TRN057P1	Program
TRN060P2	Program
TRN060P3	Program
TRN060P4	Program
TRN061P1	Program

TRN062P1	Program
TRN062P3	Program
TRN062P5	Program
TRN063P1	Program
TRN065P1	Program
TRN072P1	Program
TRNADDP1	Program
TRNC26P1	Program
TRNC29P1	Program
TRNC31P1	Program
TRNC38P1	Program
TRNC39M1	Map
TRNC39P1	Program
TRNC40P1	Program
TRNC41P1	Program
TRNC42P1	Program
TRNC43P1	Program
TRNC44P1	Program
TRNC52P1	Program
TRNC56P1	Program
TRNC57P1	Program
TRNC60P2	Program
TRNC60P3	Program
TRNC65P1	Program
TRNC66P1	Program
TRNC67P1	Program
TRNC69P1	Program
TRNC71P1	Program
TRNC72P1	Program
TRNC73P1	Program
TRNDELP1	Program
TRNDTENB	Subpgm
TRNI04P1	Program
TRNI06P1	Program
TRNI08P1	Program
TRNI09P1	Program
TRNI10P1	Program
TRNI11P1	Program
TRNI12P1	Program
TRNI13P1	Program
TRNI20P1	Program
TRNI21P1	Program
TRNI26P1	Program
TRNI29P1	Program
TRNI32P1	Program
TRNI33P1	Program

TRNI38P1	Program
TRNI39P1	Program
TRNI40P1	Program
TRNI41P1	Program
TRNI42P1	Program
TRNI44P1	Program
TRNI52P1	Program
TRNI56P1	Program
TRNI57P1	Program
TRNI65P1	Program
TRNIADP1	Program
TRNIDL1	Program
TRNUPDP6	Subpgm
TRNUPDPA	Program
TRNWRNS2	Subrtn
UPTBLS02	Program

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 4.1.0. Details for changes in this release can be found under paragraph 4.1.3 Physical File Changes or by performing Predict reporting on the keywords NEMS-4.1.0.

Use SYSDICBE to load the PREDICT modifications from the dataset
AIMS.NEMS.PROD.REL410.REL0898.PRD.

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

NEMS-EQUIPMENT
NEMS-IFM-PROP-INT-FILE
NEMS-IFM-PROP-INT-TBL
NEMS-MONTH-TRANS

The following NEMS DDMs should be added to NATURAL Security and then UPDATE linked to the NEMS, NEMSINV, and NEMSPCM libraries.

NEMS-IFM-PROP-INT-FILE
 NEMS-IFM-PROP-INT-TBL

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	-	4
Data Elements	-	333

4.1.2 Storage Considerations

Not applicable with this release.

4.1.3 Physical File Changes

Invert the following Descriptors from existing fields:

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

NEMS-MONTH-TRANS	File # 193
Ty L Field ID	F Length Occ D U DB S
*- - -----	*- -----
2 INST-SUB	N 2.0 D A2
1 CURRENT-DATE	N 8.0 D DB N

Add the following new files with all elements, descriptors, and superdescriptors defined for these files in PREDICT:

NEMS-IFM-PROP-INT-FILE	File # 146
NEMS-IFM-PROP-INT-TBL	File # 145

5.0 Catalog Source Code

As noted earlier, the following NEMS DDMs should be added to NATURAL Security and then UPDATE linked to the NEMS, NEMSINV, and NEMSPCM libraries.

NEMS-IFM-PROP-INT-FILE
NEMS-IFM-PROP-INT-TBL

Modules NEMS, INV, and PCM need to be modified at each center to contain the correct contact name and phone number for each center.

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. To compile these correctly, run another CATALL for the RPT* modules in the NEMS library using the NASA Batch standard parameters. Thirty-two programs will produce NATURAL 0002 errors. These errors 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 up to six 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 Add report 139 to table S05

NEMS - S05 - REPORT NUMBER TABLE

ENTER FUNCTION (A=ADD, C=CHANGE, D=DELETE, X=EXIT): A

REPORT NUMBER: 139

REPORT NAME: BORROWED (IN) EQUIPMENT EXPIRATION REPORT
REPORT OPTIONS (Y/N): Y

ENTER 'C' TO CANCEL: _

7.2 Run UPTBLS02 to update table S02 (Error Messages)

19 New Error Messages are being added to table S02.

7.3 Run UPDCAPS to change the CAP-SENS-CODE

If the COST is less than \$100,000 and the CAP-SENS-CODE = 'M' Then the CAP-SENS-CODE will be changed to 'N' on the NEMS-EQUIPMENT file.

If the COST is less than \$100,000 and the CAP-SENS-CODE = 'P' Then the CAP-SENS-CODE will be changes to 'Q' on the NEMS-EQUIPMENT file.

7.4 Replace ?? in MSD008P1

Replace ?? in MSD008P1 with your installation number.

8.0 Local JCL Mods

Sample JCL to Load the IFM Table File

```
//IRIFMUP JOB (MSIRMNEMS002,4201),'UPLOAD IFM',CLASS=D,  
//      NOTIFY=MSJOC,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=MSKKB,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
/*
//

```

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 4.0.0 modules, with your Installation's password.

7.0 Perform Release-Specific Procedures

7.1 Add report 139 to table S05

7.2 Run UPTBLS02 to update table S02 (Error Messages)

7.3 Run UPDCAPS to update CAP-SENS-CODE

7.4 Replace ?? in MSD008P1

8.0 Local JCL Mods