

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

Release 4.9

NASA-NEMS-VDD-13

PrISMS Contract

August 31, 2001



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT FOR THE
NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)
RELEASE 4.9**

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

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GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

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1. INTRODUCTION

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

1.1 IDENTIFICATION OF THE RELEASE

This software release is identified as NEMS, Release 4.9 and has an effective release date of August 31, 2001.

1.2 PURPOSE OF THE RELEASE

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

<u>CCR</u>	<u>Title</u>
271	Add Demil Code to NEMS
279	Install ADOSS in NEMS
282	Modifications to NEMS queries for FY01
283	Transaction 63 update NEMS-YEARLY-TRANS file
285	Add Warning banner to start-up program
288	Reports 030 and 410 do not match to the cents
289	Balancing 410 report
290	Inventory by Grid should update grid location on an underage
291	Reload NEMS Central
292	Include message at bottom of 410 report
293	Remove limit on number of grids open for inventory

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

<u>CCR</u>	<u>Title</u>
287	Report 772 data out of sync
294	I52 Cost not updated when underage is cleared
295	Key search by account instead of location

1.3 SCOPE

This VDD provides the functional and technical user of NEMS with information regarding the content, status, and structure of Release 4.9, including the following:

- Changes implemented since Release 4.8.2;
- Validation procedures to ensure the reliability of release changes;
- References to other documentation affected by this release;
- Detailed software installation instructions.

No waivers are associated with this release.

1.4 CONTACT POINTS

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

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

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

Operations Guide for the NASA Equipment Management System (NEMS).
Operations Guide for the NASA Inventory System (INV).
Users Guide for the NASA Equipment Management System (NEMS).
User and Operation Guide for the NASA Property Custodian Management (PCM).

2.5 APPLICATION SYSTEM ADMINISTRATION

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

3. TECHNICAL INFORMATION

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

3.1 TECHNICAL SYSTEM INTERFACES

This section is not applicable with this release.

3.2 DATA DICTIONARY CHANGES

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

3.3 SOFTWARE OBJECT CHANGES

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

3.4 DATABASE ADMINISTRATION

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

3.4.1 Release Dataset Names

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

3.4.2 Inventory of Objects

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

3.4.3 Storage Considerations

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

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for NEMS Software Release 4.9 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

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

4. KNOWN AND OPEN PROBLEMS

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

APPENDIX A - ABBREVIATIONS AND ACRONYMS

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

APPENDIX B - GLOSSARY

Database Administration

Responsibility for maintaining the physical database environment.

Implementation

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

Operational Preparation

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

System Administration

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

APPENDIX C - FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of validation procedures for changes in this release:

Section	CCR	Title
1.0	271	Add Demil Code to NEMS
2.0	279	Install ADOSS in NEMS
3.0	282	Modifications to NEMS queries for FY01
4.0	283	Transaction 63 update NEMS-YEARLY-TRANS file
5.0	285	Add Warning banner to start-up program
6.0	287	Report 772 data out of sync
7.0	288	Reports 030 and 410 do not match to the cents
8.0	289	Balancing 410 Report
9.0	290	Inventory by Grid should update grid location on an underage
10.0	291	Reload NEMS Central
11.0	292	Include message at bottom of 410 Report
12.0	293	Remove limit on number of grids open for inventory
13.0	294	I52 Cost not updated when underage is cleared
14.0	295	Key search by account instead of location

Details for the validation procedures follow:

1.0 CCR 271 – Add Demil Code to NEMS.

Currently NEMS does not contain the Demilitarization Code.

Description of Change

Code was changed to accommodate the addition of the demil code.

Functional Impact

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

Validation Procedures

Appendix D - steps 7.1, 7.2, 7.3, and 7.6 must be run before executing validation.

- In NEMS, add ECNs for the following transactions: 01, 04, 06, 10, 11, 12, 13, 14, 15, 16, 17, 18, 21, and a 60 change transaction.
Expected Results: Each transaction should allow you to enter information into the demil code field.
- In NEMS, run reports 010, 011, 012, 013, 500, and 501.
Expected Results: The demil code should be displayed on the reports.
- In NEMS, do static and dynamic adhoc using the following files: Daily Transaction, Equipment, History, Monthly Transaction, and Transfer.
Expected Results: The demil code should be displayed for each of the adhocs.
- In PCM, do a C60 transaction for one of the previous ECNs in NEMS.
Expected Results: The demil code should be displayed for the ECN.
- In NEMS Inventory, add ECNs for the following transactions: I04, I06, I10 I11, I12, I13, I18.
Expected Results: The demil code should be displayed for each transaction.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS</u>		
ADH045P1	Adhoc Table 045 List	Program
ADH900P1	NEMS Daily Trans File Adhoc by ECN	Program
ADH920P1	Equipment File Adhoc by ECN	Program
ADH940P1	NEMS History File Adhoc ECN Selection	Program
ADH960P1	NEMS Monthly Trans File by ECN	Program
ADH980P1	NEMS Transfer file Adhoc by ECN	Program
ADH910P4	Daily Transaction Dynamic Adhoc	Program
ADH930P4	Equipment File Adhoc by Field	Program
ADH950P4	History File Adhoc by Field	Program
ADH970P4	Monthly Transaction Adhoc by Field	Program
ADH981P4	Transfer File Dynamic Adhoc	Program
MSA002P1	Periodic Purge of Historical Files	Program
MSA003P1	Copy NEMS-Yearly to NEMS-Cumm and purge	Program

MSD001P1	Copy NEMS-Daily to NEMS-Month	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 to NEMS-Cumm and purge	Program
MSX001P1	Copy NEMS-Cumm-Month to NEMS-Prior-Month	Program
NEUCEQPA	NEMS Capital Equip by FSC (Summary)	Program
NEUCEQPB	NEMS Capital Equip by FSC (Detail)	Program
NEUCEQPC	NEMS Equipment by Heritage Code (Detail)	Program
NEUTRN04	Transfer Mass Action Inter Sub Installation	Program
NEUTRN65	Transfer Mass Action Installation	Program
NEUTRN67	Transfer Mass Action Installation	Program
NEUUEQPA	NEMS Equipment File Backup	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 ERN)	Program
RPT500P1	ECN Detail Item Report	Program
RPT501P1	ECN Detail Item Report	Program
TBL045P1	Add, Change, Delete Records from Table 045	Program
TRNADDP1	Add Transaction Processor	Program
TRNDELP1	Delete Transaction Processor	Program
TRN000P1	Equipment File (Transaction) Update Menu	Program
TRN001P1	Add Trans 01 (Receipt by Purchase – NASA)	Program
TRN004P1	Add Trans 04 (Receipt by Transfer from NASA)	Program
TRN006P1	Add Trans 06 (Receipt by Transfer from Contractor)	Program
TRN010P1	Add Trans 10 (Receipt by Fabrication)	Program
TRN011P1	Add Trans 11 (Receipt by Assembly/Disassembly)	Program
TRN012P1	Add Trans 12 (Receipt from Found on Station)	Program
TRN013P1	Add Trans 13 (Receipt from Excess)	Program
TRN014P2	Trans 14 Processing Program	Program
TRN015P1	Add Trans 15 (Receipt from ROR from History)	Program
TRN016P1	Add Trans 16 (Receipt from Transfer – Real/Personal)	Program
TRN017P1	Add Trans 17 (Receipt from non-govt source)	Program
TRN018P1	Add Trans 18 (Receipt from not previously criteria)	Program
TRN021P1	Add Trans 21 (Receipt Lease to Purchase)	Program
TRN021P2	Trans 21 Processing Program	Program
TRN060P1	Change Trans 60 NASA Held Equip Record Data	Program
TRN060P2	Change Trans 60 NASA Held Equip Record Data	Program
UPTBL045	Update Table 045	Program
UPTBLS03	Update Table S03	Program
UPTBLS02	Update Table S02	Program

PCM

PCM000L4	NEMS-Equipment File	Local
PCM000L8	NEMS-PCM-Pending File	Local
TRNC60M2	NASA Held Equipment Record Change	Map
TRNC60P2	Change Trans 60 (NASA Held Equip Data Change)	Program
TRNUPDM2	Display Equipment and Pending File	Map
TRNUPDP6	Add Daily Transaction Record	Subpgm
TRNUPDP8	Update Equipment File Field	Subpgm
TRNUPDS1	Display Equipment and Pending File	Subpgm

Inventory

TRNIADP1	Add Transaction Processor	Program
TRNIDL1	Delete Transaction Processor	Program
TRNI04P1	Add Trans I04 (Receipt by Transfer from Nasa)	Program
TRNI06P1	Add Trans I06 (Receipt by Transfer from Contractor)	Program
TRNI10P1	Add Trans I10 (Receipt from Fabrication)	Program
TRNI11P1	Add Trans I11 (Receipt from Assembly/Disassembly)	Program
TRNI12P1	Add Trans I12 (Receipt from Found on Station)	Program
TRNI13P1	Add Trans I13 (Receipt from Excess)	Program
TRNI15P1	Add Trans I15 (Receipt from ROR from History)	Program
TRNI18P1	Add Trans I18 (Receipt from not previously meeting)	Program
TRNI21P1	Add Trans I21 (Receipt – Lease to Purchase)	Program

2.0 CCR 279 – Install ADOSS in NEMS.

Install the Automated Data Optical Storage System (ADOSS) for use in NEMS.

Description of Change

Code was changed to accommodate the use of the ADOSS system.

Functional Impact

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

Validation Procedures

Appendix D - Steps 7.4, 7.5, and 8.0 must be run before executing validation.

- Test each report in NEMS. The report destination should be ADOSS.
Expected Results: No errors for each report and each report is sent over to ADOSS.
- Test each report in NEMS. The report destination should be to the regular printer.
Expected Results: No errors for each report and each report should print normal.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
JCLGENP2	JCL Generation - Reports	Program
NEADOSLA	NEMS-Table	Local
NEADOSP1	Processing ADOSS Reports	Program
NEADOSP2	ADOSS Transmit Indicator Check	Program
UPTBLS07	Update Table S07	Program
UPTBL200	Update Table 200	Program

3.0 CCR 282 – Modifications to NEMS queries for FY01.

For assets that have an acquisition transaction number of '13' (transferred from another agency) the age needs to be determined based on the manufactured date.

Description of Change

Code was changed to use Year Mfg to calculate equipment age.

Functional Impact

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

Validation Procedures

- Run program NEUUEQPA in batch.
Expected Results: A file will be created for use when creating the Capital equipment by FSC report.
- Run program NEUCEQPA in batch.
Expected Results: A summary report will be created that will list capital equipment by FSC for yearly intervals starting at less than 1 year old and ending with greater than 20 years old.
- Run program NEUCEQPB in batch.
Expected Results: A detailed report will be created that will list capital equipment by FSC for yearly intervals starting at less than 1 year old and ending with greater than 20 years old.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
NEUCEQPA	NEMS Capital Equipment by FSC (Summary)	Program
NEUCEQPB	NEMS Capital Equipment by FSC (Detail)	Program

4.0 CCR 283 – Transaction 63 update NEMS-YEARLY-TRANS file.

Transaction 63 (Reverse Add) should update the NEMS-YEARLY-TRANS file in addition to the NEMS-DAILY-TRANS file.

Description of Change

Code was changed to update the NEMS-YEARLY-TRANS file and to allow report 410 to pick up X19 transactions.

Functional Impact

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

Validation Procedures

- Add 4 ECNs with the cost of 450000, 450, 550000, 650000.
- Run batch cycle.
Expected Results: ECNs move to monthly and yearly files.
- Add 4 ECNs with the cost of 800000, 700, 750000, and 680000.
- Do a change (63) on the first four ECNs changing the following amounts:
Cost 450; Cost 25000; Cost 750000 – Capitalization 750000; Cost 2000 – Capitalization 0.
- Do a change (63) on the second four ECNs changing the following amounts:
Cost 600; Cost 21000; Cost 900000 – Capitalization 900000; Capitalization 0.
- Run batch cycle.
Expected Results: ECNs move to monthly and yearly files.
- Run report 410 (1324 – Capital Equipment).
Expected Results: The report should read the information from the NEMS-YEARLY-TRANS file. The cost and capital totals should reflect the transaction 63 changes.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
RPT410P1	1324 – Controlled Equipment Report	Program
TRN063P1	Change Transaction 63 (Reverse Add)	Program

5.0 CCR 285 – Add Warning banner to start-up program.

Adding a Warning banner to start-up program.

Description of Change

Code was changed to add a warning banner before the system banner.

Functional Impact

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

Validation Procedures

- Logon to each system (PCM, Inventory, and NEMS).
Expected Results: The warning banner should appear before each system banner.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS</u>		
NEMS	NEMS Start Program	Program
NEWRNMA	NEMS Warning Map	Map
<u>PCM</u>		
NEWRNMA	PCM Warning Map	Map
PCM	PCM Start Program	Program
PCMMAP	PCM Start Map	Map
<u>NEMSINV</u>		
INV	INV Start Program	Program
NEWRNIMA	INV Warning Map	Map

6.0 CCR 287 – Report 772 Data out of Sync.

Report 772 does not populate the date fields on the first record. The subsequent records are populated with the dates from the previous record.

Description of Change

Code was changed to populate the date fields on the first record.

Functional Impact

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

Validation Procedures

- Process an inventory account or location.
Expected Results: Report 772 should execute correctly and report equipment that is in an out status.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
RPT772P1	Items in Out Status on a Cyclic Inventory	Program

7.0 CCR 288 – Reports 030 and 410 do not match to the cents.

Reports 030 and 410 do not match to the cents because cents are not included on Report 030.

Description of Change

Code was changed to add cents to Report 030 and added transaction D15 and X19. Also added X19 transactions to Reports 010, 011, 012, 013, and 020.

Functional Impact

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

Validation Procedures

- Run Report 030.
Expected Results: The report should execute correctly and cents should be included on all the dollar amounts. D15 and X19 transactions are included in the section NPDMS Add Type Transaction.
- Run Reports 010, 011, 012, 013, and 020.
Expected Results: X19 transactions should appear on each report.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
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
RPT020P1	Custodian Monthly Transaction Report	Program
RPT030P1	Monthly Transaction Statistical Summary	Program

8.0 CCR 289 – Balancing 410 Report.

Currently the NEMS 410 report does not balance when certain transactions are performed in conjunction with other transactions.

Description of Change

Code was changed to change the CAP-SENS-CODE based on the Capitalization amount.

Functional Impact

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

Validation Procedures

- Run 410 report before doing any transactions to have a base to balance by when finished.
- Have one ECN on the Transfer file that is capital equipment
- Do a Transaction 04 and change the cap-sens-code to a Q.
 - Expected Results: Error message stating can't change capital to non-capital.
- Do a Transaction 04 and make it capital equipment.
- Do a Transaction 46 and change the cap-sens-code to Q.
 - Expected Results: Error message stating can't change capital to non-capital.
- Must have one ECN with Cost = \$100000 and Capital amount = \$100000.
- Must have one ECN with Cost = \$99999.99 and Capital amount = \$0
- Do a Transaction 25 on first ECN and change capital amount to \$99999.99.
 - Expected Results: Should get error stating capital amount should be greater than or equal to \$100000.
- Change capital amount to \$100000.01.
 - Expected Results: Updates ECN.
- Do a Transaction 25 on first ECN and change capital amount to \$0.
 - Expected Results: Updates ECN.
- Do a Transaction 25 on second ECN and change capital amount to \$99999.99.
 - Expected Results: Should get error stating that capital amount must be greater than or equal to \$100000.
- Change capital amount to \$100000.
 - Expected Results: Updates ECN.
- Perform the same steps for Transaction 63.
- Must have 4 ECNs on the History file with:
 1. Cap-sens-code = P and Capital amount = \$100000
 2. Cap-sens-code = M and Capital amount = \$100000

3. Cap-sens-code = N and Capital amount = \$0
 4. Cap-sens-code = Q and Capital amount = \$0
- Do a Transaction 15 on all ECNs.
 - Expected Results: Verify through adhoc the cap-sens-code and the capital amounts remained the same.
 - Must have 4 ECNs on the History file with:
 1. Cap-sens-code = P and Capital amount = \$100000
 2. Cap-sens-code = M and Capital amount = \$100000
 3. Cap-sens-code = N and Capital amount = \$0
 4. Cap-sens-code = Q and Capital amount = \$0
 - Do a Transaction 19 on all ECNs.
 - Expected Results: Verify through adhoc the cap-sens-code and the capital amounts remained the same.
 - Do Inventory Transaction I04. Cap-sens-code should be equal to Q.
 - Expected Results: Adds the new ECN.
 - Do Inventory Transaction I13. Cap-sens-code should be equal to X.
 - Expected Results: Adds the new ECN.
 - Must have 4 ECNs on the History file with:
 1. Cap-sens-code = P and Capital amount = \$100000
 2. Cap-sens-code = M and Capital amount = \$100000
 3. Cap-sens-code = N and Capital amount = \$0
 4. Cap-sens-code = Q and Capital amount = \$0
 - Do an Inventory Transaction I15 on all ECNs.
 - Expected Results: Verify through adhoc the cap-sens-code and the capital amounts remained the same.
 - Must have one ECN, that was deleted with Transaction 71, that is on the history file. Do Inventory Transaction I19.
 - Expected Results: Adds the ECN.
 - NEMS-YEARLY-TRANS file should have previous transactions and up to 6 months of data.
 - Run the 410 report again.
 - Expected Results: The balance should reflect the changes made to the Equipment file from the previous transactions.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
<u>NEMS</u>		
CAPSENS1	Change Capitalization or cost with Cap Sens Change	Subpgm
RPT410P1	1324 – Controlled Equipment Report	Program
TRN004P1	Add Transaction 04 (Receipt by Transfer from NASA)	Program

TRN013P1	Add Transaction 13 (Receipt from Excess)	Program
TRN015P1	Add Transaction 15 (Receipt for ROR from History)	Program
TRN019P1	Add Transaction 19 (Reinstating items previously lost)	Program
TRN025P1	Change Transaction 25 (Cost Change)	Program
TRN046P1	Change Transaction 46 (Cap Sens Code and NSN)	Program
TRN063P1	Change Transaction 63 (Reverse Add)	Program

INV

TRNI04P1	Add Transaction I04 (Receipt by Transfer from NASA)	Program
TRNI13P1	Add Transaction I13 (Receipt from Excess)	Program
TRNI15P1	Add Transaction I15 (Receipt for ROR from History)	Program
TRNI19P1	Add Transaction I19 (Reinstating items previously lost)	Program

9.0 CCR 290 – Inventory by Grid should update grid location on an underage.

Currently when an item is not found in one grid location, it is recorded as an underage. If the item is scanned in a subsequent grid location, the building and room are changed but the grid location is not and the underage is not cleared.

Description of Change

Code was changed to change the grid location and remove the underage.

Functional Impact

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

Validation Procedures

- Open an inventory.
- Upload one account that will create underage with the option to change locations equal 'y'.
Expected Results: Reports 760, 761, 763 will be produced.
- Run the Batch process.
- Upload a second account that includes entries that were underages in the first account, with the option to change locations equal 'y'.
Expected Results: Reports 760, 761, 763 will be produced.
- Run the Batch process.
- Review Current Inventory Status for the first account.
Expected Results: Underages counts should reflect the items that were cleared by the second account process
- Review the Equipment Record.
Expected Results: The building, room and date inventoried will be updated and if the account is by Grid location, the location is also updated.
- Upload a third account that includes entries that were underages in the first and second accounts, with the option to change locations equal 'n'.
Expected Results: Reports 760, 761, 763 will be produced.
- Run the Batch process.
- Review Current Inventory Status for the first and second account.
Expected Results: Underage counts should reflect the items that were cleared by the third account process.
- Review the Equipment Record.
Expected Results: The date inventoried should have been updated. The building and room will not be updated. If the account was processed by Grid location, the location will not be updated.
- Review the Transaction status by Transaction for I29s.
Expected Results: The underages should be cleared.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
INVBBIP1	Bar Code Data Against Equipment File	Program
INVBBIP4	Location Bar Code Data Against Equipment File	Program
INVBBIS1	Bar Code Data Against Equipment File	Subpgm
INVBBIS4	Bar Code Data Against Equipment File	Subpgm
INVIEXNA	Inventory Underage Clearing	Subpgm

10.0 CCR 291 – Reload NEMS Central.

The NEMS Central Equipment and History files need to be reloaded with data from the center's Equipment and History files.

Description of Change

Code was written to unload the Equipment and History files from the centers.

Functional Impact

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

Validation Procedures

- Run NCUHIST (in batch).
Expected Results: A file is created.
- Run NCUEQUIP (in batch).
Expected Results: A file is created.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
NCUEQUIP	NEMS-Equipment written to work file	Program
NCUHIST	NEMS-History written to work file	Program

11.0 CCR 292 – Include message at bottom of 410 report.

The 410 report can be run on an on-request basis for selected dates. The first part of the report will show data from the NEMS-YEARLY-TRANS file for the selected dates. The second part of the report will display the current data from the NEMS-EQUIPMENT file. This can sometimes be confusing because it does not match the data when the report was originally run.

Description of Change

Code was changed to add a message that states the data is only current for today's date.

Functional Impact

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

Validation Procedures

- Run the 410 report with the ending date older than the latest transaction date.

Expected Results: The report should execute correctly and the message ***DATA IS ONLY CURRENT FOR TODAY'S DATE*** should be displayed at the bottom of the report.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
RPT410P1	1324 – Controlled Equipment Report	Program

12.0 CCR 293 – Remove limit on number of grids open for inventory.

Currently there is a limit of 40 for the number grids that can be open at a time for an inventory.

Description of Change

Code was changed to remove the limit on the number of grids open for inventory.

Functional Impact

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

Validation Procedures

- Open an inventory with 41 grids.
Expected Results: Should be allowed to open all 41 grids without any error messages.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
INVSELP2	Inventory Select Menu	Program

13.0 CCR 294 – I52 Cost not updated when underage is cleared.

The Cost field is not being updated on the stats record when the underage is cleared.

Description of Change

Code was changed to update the Cost field on the stats record when an underage is cleared.

Functional Impact

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

Validation Procedures

- You must have an active Inventory by Location open. A grid must have underages to be cleared.
- Process in I52 transaction for an ECN (from above) that is an underage.
Expected Results: On the Current Inventory Status Display screen the Under Count and Amount should be updated.

<u>MODULE ID</u>	<u>MODULE NAME</u>	<u>TYPE</u>
TRNI52P1	Change Transaction I52 (Excess Equipment Turn-in By Custodian)	Program

14.0 CCR 295 – Key search by account instead of location.

Line 2650 is searching by account instead of location. The module is supposed to be a location module

Description of Change

Code was changed to search by Location instead of account.

Functional Impact

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

Validation Procedures

- For active Inventory by Location with the scan dataset having scans for another grid and process with the Change Location (Equipment) equal N. Expected Results: The Current Inventory Status Display should have a count for the Scanned, Held column.

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

APPENDIX D - INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NEMS SOFTWARE RELEASE 4.9

Introduction

Release information:

System Name: NEMS
Release Number: 4.9
Release Date: August 31, 2001
Effective Date: Immediately

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

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

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

xxMOV.NEMS.PROD.R490.R0801.PRD
xxMOV.NEMS.PROD.R490.R0801.SRC

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

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

Installation Sequence

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

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

1.0 Back Up Existing Data

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

2.0 Copy Source

2.1 Copy Source Code

- 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 programs have a destination of NEMSPCM.

NOTE: Module names in **bold** have been changed since the Beta release.

1. Load the NEMS source library from the dataset xxMOV.NEMS.PROD.R490.R0801.SRC.

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

- | | |
|--------------|---------------------------------------|
| 1. ADH045P1 | Adhoc Table 045 List |
| 2. ADH900P1 | NEMS Daily Trans File Adhoc by ECN |
| 3. ADH910P4 | Daily Transaction Dynamic Adhoc |
| 4. ADH920P1 | Equipment File Adhoc by ECN |
| 5. ADH930P4 | Equipment File Adhoc by Field |
| 6. ADH940P1 | NEMS History File Adhoc ECN Selection |
| 7. ADH950P4 | History File Adhoc by Field |
| 8. ADH960P1 | NEMS Monthly Trans File by ECN |
| 9. ADH970P4 | Monthly Transaction Adhoc by Field |
| 10. ADH980P1 | NEMS Transfer File Adhoc by ECN |
| 11. ADH981P4 | Transfer File Dynamic Adhoc |

12.CAPSENS1	Change Capitalization or Cost with Cap Sens Change
13.INVBBIP1	Bar Code Data Against Equipment File
14.INVBBIP4	Location Bar Code Data Against Equipment File
15.INVBBIS1	Bar Code Data Against Equipment File
16.INVBBIS4	Bar Code Data Against Equipment File
17.INVIEXNA	Inventory Underage Clearing
18.JCLGENP2	JCL Generation – Reports
19.MSA002P1	Periodic Purge of Historical Files
20.MSA003P1	Copy NEMS-Yearly to NEMS-Cumm and purge
21.MSD001P1	Copy NEMS-Daily to NEMS-Month
22.MSD006P1	Items Transferred to Historical File
23.MSD008P1	Daily Transaction Extract Program
24.MSD008P5	Month to Date Extract Program
25.MSD008P8	Recompile of Transferred Data
26.MSD008P9	Recompile of Transferred Data
27.MSM002P1	Copy NEMS-Month to NEMS-Cumm and purge
28.MSX001P1	Copy NEMS-Cumm-Month to NEMS-Prior-Month
29.NCUEQUIP	NEMS-Equipment written to work file
30.NCUHIST	NEMS-History written to work file
31.NEADOSLA	NEMS-Table
32.NEADOSP1	Processing ADOSS Reports
33.NEADOSP2	ADOSS Transmit Indicator Check
34.NEMS	NEMS Start Program
35.NEUCEQPA	NEMS Capital Equip by FSC (Summary)
36.NEUCEQPB	NEMS Capital Equipment by FSC (Detail)
37.NEUCEQPC	NEMS Equipment by Heritage Code (Detail)
38.NEUTRN04	Transfer Mass Action Inter Sub Installation
39.NEUTRN65	Transfer Mass Action Installation
40.NEUTRN67	Transfer Mass Action Installation
41.NEUUEQPA	NEMS Equipment File Backup
42.NEWRNNMA	NEMS Warning Map
43.RPT010P1	Daily Transaction Register (By Trans No)
44.RPT011P1	Daily Transaction Register (By Trans No Exploded)
45.RPT012P1	Daily Transaction Register (By ECN)
46.RPT013P1	Daily Transaction Register (By ERN)
47.RPT020P1	Custodian Monthly Transaction Report
48.RPT030P1	Monthly Transaction Statistical Summary
49.RPT410P1	1324 – Controlled Equipment Report
50.RPT500P1	ECN Detail Item Report
51.RPT501P1	ECN Detail Item Report
52.RPT772P1	Items in Out Status on a Cyclic Inventory
53.TBL045P1	Add, Change, Delete Records from Table 045
54.TRN000P1	Equipment File (Transaction) Update Menu
55.TRN001P1	Add Trans 01 (Receipt by Purchase – NASA)
56.TRN004P1	Add Trans 04 (Receipt by Transfer from NASA)

57. TRN006P1	Add Trans 06 (Receipt by Transfer from Contractor)
58. TRN010P1	Add Trans 10 (Receipt by Fabrication)
59. TRN011P1	Add Trans 11 (Receipt by Assembly/Disassembly)
60. TRN012P1	Add Trans 12 (Receipt from Found on Station)
61. TRN013P1	Add Trans 13 (Receipt from Excess)
62. TRN014P2	Trans 14 Processing Program
63. TRN015P1	Add Trans 15 (Receipt from ROR from History)
64. TRN016P1	Add Trans 16 (Receipt from Transfer – Real/Personal)
65. TRN017P1	Add Trans 17 (Receipt from non-govt source)
66. TRN018P1	Add Trans 18 (Receipt from not previously criteria)
67. TRN019P1	Add Trans 19 (Reinstating items previously lost)
68. TRN021P1	Add Trans 21 (Receipt Lease to Purchase)
69. TRN021P2	Trans 21 Processing Program
70. TRN025P1	Change Trans 25 (Cost Change)
71. TRN046P1	Change Trans 46 (Cap Sens Code and NSN)
72. TRN060P1	Change Trans 60 NASA Held Equip Record Data
73. TRN060P2	Change Trans 60 NASA Held Equip Record Data
74. TRN063P1	Change Transaction 63 (Reverse Add)
75. TRNADDP1	Add Transaction Processor
76. TRNDELP1	Delete Transaction Processor
77. UPTBL045	Update Table 045
78. UPTBL200	Update Table 200
79. UPTBLS02	Update Table S02
80. UPTBLS03	Update Table S03
81. UPTBLS07	Update Table S07

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

2. Load the NEMSINV source library from the dataset:
xxMOV.NEMS.PROD.R490.R0801.SRC.

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

1. INV INV Start Program
2. INVSELP2 Inventory Select Menu
3. NEWRNIM INV Warning Map
- A
4. SSTCISP2 Current Inventory Status Menu
5. TRNI04P1 Add Trans I04 (Receipt by Transfer from NASA)
6. TRNI06P1 Add Trans I06 (Receipt by Transfer from Contractor)
7. TRNI10P1 Add Trans I10 (Receipt from Fabrication)
8. TRNI11P1 Add Trans I11 (Receipt from Assembly/Disassembly)

- 9. TRNI12P1 Add Trans I12 (Receipt from Found on Station)
- 10. TRNI13P1 Add Trans I13 (Receipt from Excess)
- 11. TRNI15P1 Add Trans I15 (Receipt from ROR from History)
- 12. TRNI18P1 Add Trans I18 (Receipt from not previously meeting)
- 13. TRNI19P1 Add Trans I19 (Reinstating Items previously lost)
- 14. TRNI21P1 Add Trans I21 (Receipt – Lease to Purchase)
- 15. TRNI52P1 Change Transaction I52 (Excess Equipment Turn-in By Custodian)
- 16. TRNIADP1 Add Transaction Processor
- 17. 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 the dataset: xxMOV.NEMS.PROD.R490.R0801.SRC.

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

- 1. NEWRNMMMA PCM Warning Map
- 2. PCM PCM Start Program
- 3. PCMMAP PCM Start Map
- 4. PCM000L4 NEMS-Equipment File
- 5. PCM000L8 NEMS-PCM-Pending File
- 6. TRNC60M2 NASA Held Equipment Record Change
- 7. TRNC60P2 Change Trans 60 (NASA Held Equip Data Change)
- 8. TRNUPDM2 Display Equipment and Pending File
- 9. TRNUPDP6 Add Daily Transaction Record
- 10. TRNUPDP8 Update Equipment File Field
- 11. TRNUPDS1 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	6
HELP ROUTINES	0
SUBROUTINES	0
SUBPROGRAMS	7
PROGRAMS	93
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	109

2.2 List of Source Code Modifications

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

NOTE: Module names in **BOLD** have been changed since the Beta release.

Added Modules:

1. ADH045P1 Program
2. INVIEXNA Subprogram
3. NEADOSLA Local
4. NEADOSP1 Program
5. NEADOSP2 Program
6. NEWRNIMA Map
7. NEWRNMM Map
- A
8. NEWRNNMA Map
9. TBL045P1 Program
10. UPTBL045 Program
- 11. UPTBL200 Program**
12. UPTBLS03 Program
13. UPTBLS07 Program

Modified Modules:

1. ADH900P1 Program
2. ADH910P4 Program
3. ADH920P1 Program
4. ADH930P4 Program
5. ADH940P1 Program
6. ADH950P4 Program

7. ADH960P1	Program
8. ADH970P4	Program
9. ADH980P1	Program
10. ADH981P4	Program
11. CAPSENS1	Subprogram
12. INV	Program
13. INVBBIP1	Program
14. INVBBIP4	Program
15. INVBBIS1	Subprogram
16. INVBBIS4	Subprogram
17. INVSELP2	Program
18. JCLGENP2	Program
19. MSA002P1	Program
20. MSA003P1	Program
21. MSD001P1	Program
22. MSD006P1	Program
23. MSD008P1	Program
24. MSD008P5	Program
25. MSD008P8	Program
26. MSD008P9	Program
27. MSM002P1	Program
28. MSX001P1	Program
29. NCUEQUIP	Program
30. NCUHIST	Program
31. NEMS	Program
32. NEUCEQPA	Program
33. NEUCEQPB	Program
34. NEUCEQPC	Program
35. NEUTRN04	Program
36. NEUTRN65	Program
37. NEUTRN67	Program
38. NEUUEQPA	Program
39. PCM	Program
40. PCM000L4	Local
41. PCM000L8	Local
42. PCMMAP	Map
43. RPT010P1	Program
44. RPT011P1	Program
45. RPT012P1	Program
46. RPT013P1	Program
47. RPT020P1	Program
48. RPT030P1	Program
49. RPT410P1	Program
50. RPT500P1	Program
51. RPT501P1	Program
52. RPT772P1	Program

53. SSTCISP2	Program
54. TRN000P1	Program
55. TRN001P1	Program
56. TRN004P1	Program
57. TRN006P1	Program
58. TRN010P1	Program
59. TRN011P1	Program
60. TRN012P1	Program
61. TRN013P1	Program
62. TRN014P2	Program
63. TRN015P1	Program
64. TRN016P1	Program
65. TRN017P1	Program
66. TRN018P1	Program
67. TRN019P1	Program
68. TRN021P1	Program
69. TRN021P2	Program
70. TRN025P1	Program
71. TRN046P1	Program
72. TRN060P1	Program
73. TRN060P2	Program
74. TRN063P1	Program
75. TRNADDP1	Program
76. TRNC60M2	Map
77. TRNC60P2	Program
78. TRNDELP1	Program
79. TRNI04P1	Program
80. TRNI06P1	Program
81. TRNI10P1	Program
82. TRNI11P1	Program
83. TRNI12P1	Program
84. TRNI13P1	Program
85. TRNI15P1	Program
86. TRNI18P1	Program
87. TRNI19P1	Program
88. TRNI21P1	Program
89. TRNI52P1	Program
90. TRNIADP1	Program
91. TRNIDL1	Program
92. TRNUPDM2	Map
93. TRNUPDP6	Subprogram
94. TRNUPDP8	Subprogram
95. TRNUPDS1	Subprogram
96. UPTBLS02	Program

Deleted Modules:

None

3.0 Pre-Predict Data Conversion

Not applicable with this release.

4.0 Install Predict

4.1 Data Dictionary Changes

This release will include the new enhancements for Version 4.9.0. Details for changes in this release can be found under Section 4.1.3 Physical File Changes or by performing Predict reporting on the keyword NEMS-4.9.0.

Use SYSDICBE to load the PREDICT modifications from the dataset:
xxMOV.NEMS.PROD.R490.R0801.PRD.

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

NEMS-DAILY-TRANS
NEMS-EQUIPMENT
NEMS-HISTORY
NEMS-MONTH-TRANS
NEMS-PCM-PENDING
NEMS-TABLE
NEMS-TRANSFER
NEMS-YEARLY-TRANS

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	-	8

4.1.2 Storage Considerations

Not applicable with this release.

4.1.3 Physical File Changes

Add the following field:

```
NEMS-DAILY-TRANS                               File # 187
  Ty L Field ID                                F Length  Occ  D U DB S
  *- - -----*-----*-----* * * -- *
      1 DEMIL-CODE                              A      1.0                AP N
```

Using the following commands:

```
//DDKARTE DD *
ADADBS NEWFIELD FILE=187
ADADBS FNDEF='01,AP,1,A,NU'
/*
```

Add the following field:

```
NEMS-EQUIPMENT                               File # 188
  Ty L Field ID                                F Length  Occ  D U DB S
  *- - -----*-----*-----* * * -- *
      1 DEMIL-CODE                              A      1.0                AS N
```

Using the following commands:

```
//DDKARTE DD *
ADADBS NEWFIELD FILE=188
ADADBS FNDEF='01,AS,1,A,NU'
/*
```

Add the following field:

```
NEMS-HISTORY                               File # 190
  Ty L Field ID                                F Length  Occ  D U DB S
  *- - -----*-----*-----* * * -- *
      1 DEMIL-CODE                              A      1.0                AS N
```

Using the following commands:

```
//DDKARTE DD *
ADADBS NEWFIELD FILE=190
ADADBS FNDEF='01,AS,1,A,NU'
/*
```

Add the following field:

```
NEMS-MONTH-TRANS                               File # 193
  Ty L Field ID                                F Length Occ D U DB S
  * - - - - - * - - - - - * - - - - - * * - - *
    1 DEMIL-CODE                               A     1.0         AP N
```

Using the following commands:

```
//DDKARTE DD *
ADADBS NEWFIELD FILE=193
ADADBS FNDEF='01,AP,1,A,NU'
/*
```

Add the following field:

```
NEMS-PCM-PENDING                               File # 197
  Ty L Field ID                                F Length Occ D U DB S
  * - - - - - * - - - - - * - - - - - * * - - *
    1 DEMIL-CODE                               A     1.0         BL N
```

Using the following commands:

```
//DDKARTE DD *
ADADBS NEWFIELD FILE=197
ADADBS FNDEF='01,BL,1,A,NU'
/*
```

Add the following fields:

```
NEMS-TABLE                               File # 195
  Ty L Field ID                           F Length Occ  D U DB S
  *- - ----- * - ----- * - ----- * * -- *
    1 T-DEMIL-RANK-NMBR                     N    2.0
  MU 1 T-DEMIL-CODE-DESC                     A   240.0  2
    1 MAINFRAME-DSN                         A    44.0
    1 ADOSS-SERVER-DSN                       A    44.0
    1 ADOSS-TRANSMIT-IND                     A     1.0
                                           AG N
```

Using the following commands:

```
//DDKARTE DD *
ADADBS NEWFIELD FILE=195
ADADBS FNDEF='01,AA,2,U,NU'
ADADBS FNDEF='01,AD,240,A,MU,NU'
ADADBS FNDEF='01,AE,44,A,NU'
ADADBS FNDEF='01,AF,44,A,NU'
ADADBS FNDEF='01,AG,1,A,NU'
/*
```

Add the following field:

```
NEMS-TRANSFER                             File # 196
  Ty L Field ID                           F Length Occ  D U DB S
  *- - ----- * - ----- * - ----- * * -- *
    1 DEMIL-CODE                             A     1.0
                                           AY N
```

Using the following commands:

```
//DDKARTE DD *
ADADBS NEWFIELD FILE=196
ADADBS FNDEF='01,AY,1,A,NU'
/*
```

Add the following field:

NEMS-YEARLY-TRANS		File # 199							
Ty	L	Field ID	F	Length	Occ	D	U	DB	S
* -	-	-----	* -	-----	-----	*	*	--	*
	1	DEMIL-CODE	A	1.0				AP	N

Using the following commands:

```
//DDKARTE DD *  
ADADBS NEWFIELD FILE=199  
ADADBS FNDEF='01,AP,1,A,NU'  
/*
```

5.0 Catalog Source Code

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

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

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

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

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

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 an online catalog (CATALL) on module TRNI34P1 and TRNILOP3 to prevent problems with access to the second screen.

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 one NATURAL 0043 error received. See Section 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 Parameters.

6.0 Post-Predict Data Conversion

Not applicable with this release.

7.0 Perform Release-Specific Procedures

7.1 Update Table S02

Run UPTBLS02 (online or batch) to add the table 045 for the demil codes.

7.2 Update Table 045

Run the following program (UPTBL045) (online or batch) to add the descriptions for the demil code table (045).

7.3 Update Table S03

Run UPTBLS03 (online or batch) to update the error messages for the demil codes.

7.4 Create and Load Table 200

The following is an example of how the table should be created:

```
20008R010P100MSIRM.NEMSDD.A01000 (25 spaces) MSIRM.NEMSDD.ADOSS.01000 (20 spaces) A
```

The following is a description of the spacing for the table:

- 3 spaces – table number (Table-Id-Key)
- 2 spaces – Sub-Installation number (Table-Id-Key)
- 6 spaces – Report Name (Table-Id-Key)
- 2 spaces – CMPrint location (00,01,02, etc.) (Table-Id-Key)
- 44 spaces – Work file name (Mainframe-DSN)
- 44 spaces – ADOSS work file name (ADOSS-Server-DSN)
- 1 space – ADOSS transmit indicator (ADOSS-Transmit-Ind)

To load Table 200, use UPTBL200. You will need to change the work file name to what your dataset name will be.

7.5 Create Dataset for FTP

A dataset needs to be created that contain the following FTP information:

Site address
Userid
Password

The following is an example of this information:

ADOSS.NACC.NASA.GOV
nems
nems2500

The name of the dataset should be the same as the dataset in the FTP step in the JCL.

7.6 Update Table S07

Run UPTBLS07 (online or batch) to update the error codes in Table S07.

8.0 Local JCL Mods

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

```
000023 JCLDD 100120XXXX X XX//SYSOUT DD SYSOUT=*
000024 JCLDD 100130XXXX X XX//SORTMSG DD SYSOUT=*
000025 JCLDD 100140XXXX X XX//SYSPRINT DD SYSOUT=*
000026 JCLDD 100150XXXX X XX//DDPRINT DD SYSOUT=*
000027 JCLDD 100160XXXX X XX//CMPRINT DD SYSOUT=( , ),OUTPUT=( * .HP4201 ),COPIES=1
000028 JCLDD1 100165 X //CMPRINT DD DSN=#FILENAME#,
000029 JCLDD1 100166 X // DISP=OLD
000030 JCLPRINT100170 //CMPRINT DD SYSOUT=( , ),OUTPUT=( * .HP4201 ),COPIES=1
000031 JCLDD 100180 X //CMPRT02 DD SYSOUT=( , ),OUTPUT=( * .HP4201 ),COPIES=1
000032 JCLPRINT100190 //CMPRT02 DD SYSOUT=( , ),OUTPUT=( * .HP4201 ),COPIES=1
000033 JCLDD 100200 X X //CMPRT04 DD SYSOUT=( , ),OUTPUT=( * .HP1602 ),COPIES=1
000034 JCLDD 100210 X X //CMPRT05 DD SYSOUT=( , ),OUTPUT=( * .HP1342 ),COPIES=1,DCB=BLKSIZE=84
000035 JCLDD 100300XXXX X XX//CMWKF01 DD SYSOUT=(A,INTRDR),DCB=(RECFM=F,LRECL=80,BLKSIZE=6160)
000036 JCLDD 100320XXXX X XX//CMWKF02 DD DSN=MSIRM.NEMS.JOURNAL,DISP=MOD
000037 JCLMSM02100340 M //CMWKF03 DD DSN=&&WORK3,DISP=(NEW,PASS),
000038 JCLMSM02100345 M // DCB=(RECFM=FB,LRECL=624,BLKSIZE=6240),
000039 JCLMSM02100350 M // UNIT=SYSDA,SPACE=(CYL,(1,3))
000040 JCLMSM02100360 M //CMWKF04 DD DSN=MSIRM.NEMS.MNTHTRNS(+1),
```

```

000041 JCLMSM02100370      M //          DISP=(NEW,CATLG,DELETE),DCB=(NACCADM.MD,
000042 JCLMSM02100380      M //          RECFM=FB,LRECL=624,BLKSIZE=6240),UNIT=SYSDA,
000043 JCLMSM02100390      M //          SPACE=(CYL,(1,3))
****
000081 JCLPGM  100870      XJCLCHKP1 UTIL 12 2
000082 JCLPGM  100880  X      MSD005P1
000083 JCLPGM  100890  X      MSD001P1
000084 JCLPGM  100900      MSD009P1___/* X OUT OF CNTL 3 TO REMOVE 1342 PRINTS NEMS
000085 JCLPGM  100910      X      RPT999P1
000086 JCLPGM1 100915      X      NEADOSP2
000087 JCLPGM  100920      X      MSD008P1
000088 JCLPGM  100930      MSD008P8
****
000192 JCLDD   900210XXXX X  XX//CMWKF01 DD SYSOUT=(A,INTRDR),DCB=(RECFM=F,LRECL=80,BLKSIZE=6160)
000193 JCLDD   900220XXXX X  XX//CMWKF02 DD DSN=MSIRM.NEMS.JOURNAL,DISP=MOD
000194 JCLDD   900300      X //CMWKF03 DD DSN=MSIRM.NEMS.JOURNAL,DISP=OLD
000195 JCLDD   900350      X //CMWKF20 DD DSN=MSIRM.NEMSDD.ADOSS.SYSIN,
000196 JCLDD   900351      X //          DISP=OLD
000197 JCLDD   900500XXXX X  XX//CMSYNIN DD *
000198 JCLNATLG900510X XX X  X NEDEVL,NEBATCH
000199 JCLNATLG900520X XX X  X %*
000200 JCLNATLG900530X XX X  X NEBATCH
000201 JCLPGM  900540XXXX  XXJCLGENP1 GEN
000202 JCLPGM2 900550  X      JCLCHKP1 GLBL
000203 JCLPGM2 900560  X      JCLCHKP1 REPT
000204 JCLPGM  900570      X JNRNPTP1
000205 JCLPGM  900580      X JRNCLRP1
000206 JCLPGM2 900585      X NEADOSP1
000207 JCLNAT  900590XXXX X  XXFIN
000208 JCLEXEC 900600      X //FTP04 EXEC PGM=FTP,COND=(4,LE),PARM='(EXIT'
000209 JCLDD   900610      X //SYSUDUMP DD SYSOUT=*
000210 JCLDD   900620      X //SYSPRINT DD SYSOUT=*
000211 JCLDD   900630      X //FTPSLOG DD SYSOUT=*
000212 JCLDD   900640      X //FTPOUT DD SYSOUT=*
000213 JCLDD   900650      X //SYSIN DD DSN=MSIRM.NEMSDD.ADOSS.SIGNON,DISP=OLD
000214 JCLDD   900660      X //          DD DSN=MSIRM.NEMSDD.ADOSS.SYSIN,DISP=OLD
000215 JCLECARD900670XXXX X  XX/*

```

9.0 Installation Checklist

- 1.0 Back Up Existing Data
- 2.0 Copy Source
 - 2.1 Copy Source Code
 - 2.2 List of Source Code Modifications
- 3.0 Pre-Predict Data Conversion
- 4.0 Install Predict
 - 4.1 Data Dictionary Change
 - 4.1.1 Inventory of Objects
 - 4.1.2 Storage Considerations
 - 4.1.3 Physical File Changes
- 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 release NEMS Release Version 4.8.1 modules, with your installation's password.
- 6.0 Post-Predict Data Conversion
- 7.0 Perform Release-Specific Procedures
 - 7.1 Update Table S02
 - 7.2 Update Table 045
 - 7.3 Update Table S03
 - 7.4 Create and Load Table 200
 - 7.5 Create Dataset for FTP
 - 7.6 Update Table S07
- 8.0 Local JCL Mods