NATIONAL DRUG FILE (NDF)

TECHNICAL MANUAL

Version 4.0
October 1998

(Revised February 2009)

Department of Veterans Affairs
Office of Enterprise Development

Revision History

The table below lists changes made since the initial release of this manual. Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. Either update the existing manual with the Change Pages document, or replace it with the updated manual.

Note: The Change Pages document may include unedited pages needed for two-sided copying. Only edited pages display the patch number and revision date in the page footer.

Date	Revised Pages	Patch Number	Description
02/09	6, 10, 10b, 12e-f	PSN*4*169	Added routines PSNEN169 and PSNPO169. Described section added to the VA Product message as part of an NDF Management System change. Updated Notes Regarding Patches section. (G. Tucker, PM; V. Howell, TW)
02/06	6	PSN*4*109	Added routine PSN5067 to the list of routines. (H. Whitley, PM; L. Woodson, TW)
08/05	iii, 6, 10b, 12c-d, 15, 21, 22	PSN*4*101	Added routines PSNVUID and PSNPREDS, an explanation of the data standardization project in a new section called Notes regarding Patches; moved changes to CS Federal Schedule field (patch PSN*4*65) to new section; updated Table of Contents, Glossary and Index. (H. Whitley, PM; L. Woodson, TW)
10/04	i, 2, 6, 8	PSN*4*80	Added routines and a reference to the *Pharmacy Re-Engineering (PRE) Application Program Interface (API) Manual* created for the Pharmacy Re-Engineering (PRE) project Encapsulation cycle 1
09/03	7	PSN*4*70	-Added two new options to the list of exported options.
07/03	Title Page, i-ii, 10b	PSN*4*65	- Noted changes to CS Federal Schedule field.
04/03	Title Page, i, 15	PSN*4*20	-Changed the RD access on several files.
04/03	Title Page, i, 6	PSN*4*68	-Added the PSNPPIO routine to the list of routines.
02/03	Title Page, i-iv, 4a-4d, 6	PSN*4*62	-Replaced the Title Page, Revision History Page, and Table of Contents. -Added the Patient Medication Information (PMI) Sheet enhancement files and printer set-up. -Added print routine to the list of routines.

Date	Revised Pages	Patch Number	Description
10/02	Title Page, i-iv, 12, 12a, 12b	PSN*4*64	-Replaced the Title Page (and associated blank page) and the Revision History Page (and associated blank page). -Added page numbers to the Revision History Pages and Table of Contents Pages. - Updated the Electronic MailMan Messages for Drugs Unmatched from the National Drug File.
10/02	Title Page 10, 10a, 10b, 11, 12, 12a, 12b	PSN*4*58	- Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.) - Updated the Electronic MailMan Messages for Data Update for NDF, Updated Interactions, and Drugs Unmatched from National Drug File. This included new screen captures and required the addition of new pages.
09/01	Title Page 10-12	PSN*4*53	- Replaced the Title Page (and associated blank page) and the Revision History page (and associated blank page after it.) - Added a new Electronic Mail Message for Updated Interactions and added new screen captures for the Electronic Mail Messages for Data Update and Drugs Unmatched from National Drug File.
02/00	6,7,9	PSN*4*22	Added a new option called *Inquire to National Files*.
10/98			Original Released Technical Manual.

Table of Contents

(This page included for two-sided copying.)

Files

The NATIONAL DRUG file (#50.6) has been redesigned from a file seven multiples deep to a new file structure of four separate files. The new files are the VA PRODUCT file (#50.68), the NDC/UPN file (#50.67), the VA DISPENSE UNIT file (#50.64), and File #50.6, which is now the VA GENERIC file.

The files required to run the NDF software are listed below.

```
                                   UP    SEND  DATA                    USER
                                   DATE  SEC.  COMES  SITE   RSLV  OVER
FILE #     NAME                    DD    CODE  W/FILE DATA   PTS   RIDE
--------------------------------------------------------------------------

50.416     DRUG INGREDIENT         YES   YES   YES    OVER   NO    NO

50.6       VA GENERIC              YES   YES   NO

50.605     VA DRUG CLASS           YES   YES   YES    OVER   NO    NO

50.606     DOSAGE FORM             YES   YES   YES    OVER   NO    NO
Partial DD: subDD 50.606     fld:  .01

50.607     DRUG UNITS              YES   YES   YES    OVER   NO    NO

50.608     PACKAGE TYPE            YES   YES   YES    OVER   NO    NO

50.609     PACKAGE SIZE            YES   YES   YES    OVER   NO    NO

50.612     NATIONAL DRUG TRANSLATION  YES  YES  NO

50.64      VA DISPENSE UNIT        YES   YES   NO     OVER   NO    NO

50.67      NDC/UPN                 YES   YES   NO

50.68      VA PRODUCT              YES   YES   NO

51.2       MEDICATION ROUTES       YES   YES   NO     MERG   NO    YES
Partial DD: subDD 51.2       fld:  .01

55.95      DRUG MANUFACTURER       YES   YES   YES    OVER   NO    NO

56         DRUG INTERACTION        YES   YES   NO     OVER   NO    NO

59.7       PHARMACY SYSTEM         YES   YES   NO
Partial DD: subDD 59.7       fld:  10
                             fld:  10.1
                             fld:  10.2
                             fld:  11
                             fld:  12
```

Templates

Sort	File
PSNFRMSRT	50

Print	File
PSNFRMPRT	50
PSNHEAD	50
PSNLDG1	50
PSNPRINT	50.605
PSNRPT4	50
PSNACTION	56

Routines

The following is a list of routines you will see for NDF when you load the new routine set. The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option XU FIRST LINE PRINT (*First Line Routine Print*) to print a list of just the first line of each PSN* routine.

PSN4P4	PSN4POST	PSN4PRE	PSN50612	PSN50625
PSN50626	PSN50627	PSN5067	PSN50P41	PSN50P4A
PSN50P6	PSN50P65	PSN50P67	PSN50P68	PSN56
PSNACT	PSNAPIS	PSNAUTO	PSNBLD	PSNCLPR
PSNCLS	PSNCMOP	PSNCOMP	PSNDDI1	PSNDEA
PSNDEX	PSNDI	PSNDINT	PSNDRUG	PSNEN169
PSNEXC	PSNFRMLY	PSNHEADR	PSNHELP	PSNHELP1
PSNHFRM	PSNHFRM1	PSNHIT	PSNLDG	PSNLOOK
PSNMCLS	PSNMRG	PSNNDC	PSNNDC1	PSNNFL
PSNNFL1	PSNNGR	PSNOCLS	PSNONDF	PSNOUT
PSNPFN	PSNPO169	PSNPPIO	PSNPPIP	PSNPPIP1
PSNPRE	PSNPRE1	PSNPREDS	PSNPSS	PSNPST
PSNQA	PSNRPT	PSNRPT2	PSNRPT3	PSNSTCK
PSNSTCL	PSNSUPLY	PSNTER	PSNUPN	PSNVAGN
PSNVER	PSNVFY	PSNVIEW	PSNVUID	PSNXREF

75 Routines

The build will check to make sure that the site has the following patches installed:

Package	Patch Needed
Adverse Reaction Tracking V. 4.0	GMRA*4*13
Consolidated Mail Outpatient Pharmacy V. 2.0	PSX*2*18
Decision Support System V. 3.0	ECX*3*10
Drug Accountability V. 3.0	PSA*3*8
Immunology Case Registry V. 2.1	IMR*2.1*3
Inpatient Medications V. 4.5	PSJ*4.5*59
Inpatient Medications V. 5.0	PSJ*5*11, PSJ*5*14
Order Entry/Results Reporting V. 3.0	OR*3*33 *[CPRS sites only]*
Outpatient Pharmacy V. 6.0	PSO*6*173
Outpatient Pharmacy V. 7.0	PSO*7*10, PSO*7*11
Pharmacy Data Management V. 1.0	PSS*1*29

External Relations

Data Base Integration Agreements (DBIAs)

National Drug File (NDF) V. 4.0 has Data Base Integration Agreements (DBIAs) with the packages listed above. For complete information regarding the DBIAs for NDF V. 4.0, please refer to the *DBA* [DBA] menu option on FORUM and then the *Integration Agreement Menu* [DBA IA ISC].

Internal Relations

All of the National Drug File software package options have been designed to stand-alone.

Package-Wide Variables

The National Drug File routines do not use package-wide variables.

Electronic MailMan Messages

When the data patches have been sent, you and holder(s) of the PSNMGR key will receive Mailman messages similar to the following examples.

The first MailMan message lists new VA products that have been added to the National Drug File, the active VA products that are unmarked for CMOP, the VA products for which the National Formulary Indicator is changed, and the VA products that have had the OVERRIDE dosage form excluded from dosage checks flag edited. The second MailMan message lists the interactions that have been added, edited, or inactivated in the National Drug File. The third MailMan message contains a list of drugs unmatched from the National Drug File.

MailMan Message 1: Data Update for NDF

```
Subj: DATA UPDATE FOR NDF  [#112345] 03 May 02 11:31  420 lines
From: NDF MANAGER  In 'IN' basket.   Page 1
-----------------------------------------------------------------------

The following VA Products have been added to the National
Drug File.  You may wish to review, then match or unmatch
local drug file entries based on this updated information.

  ACCU-CHEK ACTIVE (GLUCOSE) TEST STRIP
   (CMOP - XZ355)           (DISPENSE UNIT - EA)
     050924-0681-01   050924-0475-50
  BOSENTAN 125MG TAB
   (CMOP - B0477)           (DISPENSE UNIT - TAB)
     066215-0102-06
  CHONDROITIN NA 40MG/HYALURONATE 30MG/ML INJ,OPH,SYRINGE,0.75ML
   (CMOP - C1041)           (DISPENSE UNIT - SYRINGE)
     008065-1839-75
  DIGOXIN (LANOXIN) 0.125MG TAB
   (CMOP - D0080)           (DISPENSE UNIT - TAB)
     000173-0242-75   000173-0242-30   000173-0242-55
  ESTRADIOL 25MCG TAB,VAG,APPLICATOR
   (CMOP - E0335)           (DISPENSE UNIT - EA)
     000009-5173-03   000009-5173-02   000009-5173-04
  FERROUS SO4 325MG TAB,EC,UD
   (CMOP - F0297)           (DISPENSE UNIT - TAB)
     000574-0608-11
  GLYCERIN 3%/SODIUM CL 0.75% SOLN,NASAL
   (CMOP - G0220)           (DISPENSE UNIT - ML)
     050930-0280-50   050930-0280-32
  HYDROGEN PEROXIDE 1.5% RINSE,ORAL
   (CMOP - H0408)           (DISPENSE UNIT - ML)
     010310-3186-00   038341-0800-80   038341-0801-60
  IBRITUMOMAB TIUXETAN IN-111 INJ,KIT
   (CMOP - I0336)           (DISPENSE UNIT - KIT)
     064406-0104-04

----------------------------------------report continues----------------------------------------
```

MailMan Message 1: Data Update for NDF (continued)

```
The National Formulary Indicator has changed for the following
VA Products.  The National Formulary Indicator will automatically
be changed in your local DRUG file (#50).  Please review the
VISN and Local Formulary designations of these products and
make appropriate changes.

FORMULARY ITEMS
   ACCU-CHEK ACTIVE (GLUCOSE) TEST STRIP
   AL OH 500MG/MG OH 400MG/SIMETHICONE 40MG/5ML LIQUID(ML)
   ALBUTEROL SO4 0.5% SOLN,INHL,5ML
   CLARITHROMYCIN 500MG TAB,SA,PKT,14
   EFAVIRENZ 600MG TAB
   ENOXAPARIN 120MG/0.8ML INJ,SYRINGE,0.8ML
   FOLIC ACID 1MG TAB,UD
   GUAIFENESIN 100MG/5ML (AF) LIQUID
   HEPATITIS A 720 EL.U/HEPATITIS B 20MCG/1ML VACCINE INJ
   HEPATITIS A 720 EL.U/HEPATITIS B 20MCG/ML VACCINE INJ,SYR,1ML

NON-FORMULARY ITEMS
   OPIUM 10% TINCTURE
   PROCAINAMIDE HCL 1000MG TAB,SA
   PROCAINAMIDE HCL 250MG CAP
   PROCAINAMIDE HCL 250MG TAB

The following active VA Products are no longer marked for CMOP.
All local drug file entries matched to these VA Products will
be UNMARKED for CMOP.  In order to have these entries dispensed
by CMOP any local DRUG file (#50) entries matched to these
products must be re-matched to another VA product that is actively
marked for CMOP dispensing.

   ANTI-THYMOCYTE GLOBULIN (RABBIT) 25MG/VIL INJ     A1108
   BANDAGE,PROFORE FOUR LAYER SYSTEM,S-N #66000016     XX199
   ISOTRETINOIN 10MG CAP     I0085
   ISOTRETINOIN 20MG CAP     I0086
   ISOTRETINOIN 40MG CAP     I0087


The National Formulary Restriction has changed for the following VA Products.

   MONTELUKAST NA 10MG TAB
    Refer to leukotriene inhibitor criteria for use.
   MONTELUKAST NA 10MG TAB,UD
    Refer to leukotriene inhibitor criteria for use.
   PROCAINAMIDE HCL(PROCANBID)500MG TAB,SA
    Refer to Procainamide drug monitoring recommendations.
```

MailMan Message 1: Data Update for NDF (continued)

```
For the following VA Products, the OVERRIDE dosage form exclude from
dosage checks flag has been edited.

     INSULIN HUMULIN 70/30 (NPH/REG) INJ PEN,3ML      Yes
          DOSAGE FORM: INJ (excluded)
     TIOTROPIUM 18MCG CAP,INHL,5                      No
          DOSAGE FORM: CAP,INHL (not excluded)
     TIOTROPIUM 18MCG CAP,INHL,90                     No
          DOSAGE FORM: CAP,INHL (not excluded)
     ZER VACCINE LIVE (OKA/MERCK) INJ                 Yes
          DOSAGE FORM: INJ,LYPHL (not excluded)
```

Note regarding Patch PSN*4*169

This patch makes these corrections to the INQUIRE TO VA PRODUCT INFO FOR LOCAL DRUG [PSNLOOK] option:
  Problem: Sometimes the Active Ingredients would not display.
  Solution: The Active Ingredients will now always display.

  Problem: Sometimes the Strength that is displayed next to the Active
                  Ingredient is actually the Strength of the VA Product.
  Solution: The Strength of the Active Ingredient will now accurately display.

  Problem: The Drug Unit was not always displaying.
  Solution: The Drug Unit will now always display.

  Problem: Only the CS FEDERAL SCHEDULE code was displaying, and
                  not the text.
  Solution: For the CS FEDERAL SCHEDULE, both the code and text will
                  now display.

  Problem: When displaying the Active Ingredients, the text (Primary) will
                  no longer display next to an Active Ingredient that is a Primary
                  Ingredient.
  Solution: The Primary Ingredient will now display if the Ingredient of the
                  VA Product has a Primary Ingredient.

This patch makes these corrections to the INQUIRE TO NATIONAL FILES [PSNACT] option:
  Problem: Only the CS FEDERAL SCHEDULE code was displaying, and
                  not the text.
  Solution: For the CS FEDERAL SCHEDULE, both the code and text will
                  now display.

  Problem: The National Formulary Restriction display was being truncated
                  after one line if it was two or more lines in length.
  Solution: The entire text entered for the National Formulary Restriction
                   will now display.

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