

MACSIS HIPAA Notify Reports: Outliers and Holds

The history of these reports goes back quite ways – they were originally developed in conjunction with discussions at the MACSIS MIS Group meetings in 2001 and have evolved as needed over the years. The last major rewrite was in 2004, but there have been some “tweaks” to the coding in February of 2008.

To be succinct as possible, these reports are intended to be run each weekend and to focus on the claims submitted and processed into the Diamond 725 MACSIS database that very week. The “Outlier” reports focus on person (as opposed to Pseudo-Client) claims which had units or allowed amounts sufficient to be considered worthy of review by Board staff before they were finalized or further processed in MACSIS. There were 4 such Outlier Reports: Medicaid Claims for a Provider, Non-Medicaid Claims per Provider, plus a Board level (all Providers) Medicaid and Board Level (All-Providers) Non-Medical. The same 4 report sequence was developed for Claims on Hold.

The 8 reports can be produced for any given board each weekend – whether any will be generated is determined by the presence of “qualifying or trigger” claim events. A Board might have 2 providers with Medicaid outlier claims in some weekend. In which case that Board would receive a report for each of those Providers – and a summary Board presentation (all Providers) as well. There might be corresponding Non-Medicaid claim reports, or not, etc. If “trigger” outliers or holds are found, the reports are generated.

In late 2007 these report files are being encapsulated in a pass-phrase encrypted (AES, 256) secure .zip file. One such .zip is created for each of the 4 categories of Outlier (Medicaid-Provider, Medicaid-Board, Non-Medicaid Provider, Non-Medicaid Board) and Hold as needed.

As explained in earlier documentation, there are some logic/conceptual restrictions on which claims are included in these Notify Reports:

- A claims ACPAY File creation date is examined -- the claims must be newer (more recent) than the week’s start date.
- The claim must be about a person and not a pseudo-client (i.e., the SUBNO must not contain any alphabetic letters.
- A gross check of Quantity (Units) and Allowed Amount is made for Outliers: greater than 5 units and /or an Allowed Amount greater or equal to \$400 are accepted into the Notify queue. These trigger conditions were developed by John Raab of ODMH in conjunction with Rick Tully and Doug Day of the Medicaid Administrative staffing of MH and AD respectively.
- The claim’s Processing Status (PROCSTAT) must be “U” or “H”.
- Claims with a Claims Status of “D” are excluded. D = Denied.
- All Claims marked as Reversals (ReverseFlag=Y) are rejected.
- The first 5 bytes of the Procedure Code is examined: for the strings of “H0004, H0005, H0036, H0038, and T1006,” if the Quantity is less than 20 the claim is excluded from this report.
- The combination of Procedure Code, Modifiers, and MEDDEF is examined to assign a claim to Medicaid (MCD) or Non-Medicaid (NON) according to separate rules for MH and AD.

You can examine all these particulars inside of the program code which follows. Two additional processing notes are important. One, it is entirely possible for there to be duplicate claims in these Notify reports. Since we merge claims information with member-eligibility files in our weekend extract process – if a specific member has the mistake of overlapping eligibility spans, it is entirely possible for a claim to be duplicated in the extract process. There are not such duplicated in the Diamond 725 database, but there can be in the claims extracts. Overlapping spans are NOT supposed to happen – and other error checking reports lead to corrections but within any given weekend’s (SAS©) master claims file, there may be duplicates! The second processing note is that there are a few circumstances where other claims have been removed from the Outlier report process at the request of State Department or Board MIS staff. The final section of this document will detail those Special Exceptions Rules.

**MACSIS Technical Support
March, 2008 (JPRM)**

* NOTIFY MASTER PROGRAM: CIRCA MARCH, 2008 ;
* BUILDS DATA SET USED BY 4 HOLDS AND 4 OUTLIER SUB-PROGRAMS ;

%LET CUTOFF=08MAR08;
%LET DSN=MAR15;
%LET WHEN=15MAR08;
%LET BEGIN=MARCH.08.2008;
%LET END=MARCH.15.2008;

/***** H I P A A V E R S I O N 9 *****/

LIBNAME CLAIMS V9 '/sasdata/hipaa/claims/weekly/holding';
LIBNAME LIBRARY V9 '/sasdata/library_9';
LIBNAME STORE V9 '/sasdata/hipaa/claims';

DATA ONE;
SET CLAIMS.HMASTER;
KEEP INDATE CLAIMNO SUBNO BATCH QUANTITY NETAMT ALLOWED CLMSTAT PROCMOD MEDDEF CGROUP COMPANY
PROCCODE PROCSTAT LNAME PROVNO MEDDEF SDATE WHAT UDEF2 BILLAMT GLREF SLICER ;
IF PROCSTAT IN ('U','H');

K=INDEXC(SUBNO,'ABCDEFGHIJKLMNOPQRSTUVWXYZ');
INDATE=INPUT(SUBSTR(FJCDT,1,8),YYMMDD8.);
SDATE=INPUT(SERVDATE,YYMMDD8.);

IF INDATE GE "&CUTOFF"d;
IF QUANTITY GT 5 OR ALLOWED GE 400 ;
IF K > 0 THEN DELETE ;
IF CLMSTAT IN ('D') THEN DELETE ;
IF REVERSE EQ 'Y' THEN DELETE;
WHAT=PUT(PROCCODE,\$HPROC.);
UDEF2=PCNTLNO ;

DATA CLOSER_EXAM;
SET ONE;
IF PROCCODE IN ('H0004','H0005','H0036','H0038','T1006') AND QUANTITY LT 20 THEN DELETE ;

* PROC FREQ DATA=ONE;
* TABLE CGROUP*PROCSTAT;

DATA TWO THREE;
LENGTH CKEY \$2 ;
SET CLOSER_EXAM;
KEY=SUBSTR(WHAT,1,2);
IF KEY = 'MH' THEN DO ;
 CKEY = 'MH';
 OUTPUT TWO;
END;
ELSE OUTPUT THREE ;

DATA FOUR FIVE ;
SET THREE;
IF KEY = 'BH' THEN OUTPUT FOUR;
ELSE DO;
 CKEY = 'AD';
 OUTPUT FIVE;
END;

DATA SIX SEVEN;
SET FOUR;
IF PROCMOD IN ('HE','HQ') THEN DO;
 CKEY = 'MH';
 OUTPUT SIX ;
END;
ELSE DO;
 CKEY = 'AD';
 OUTPUT SEVEN ;
END;

DATA ALLBACK;
SET TWO FIVE SIX SEVEN ;

MACSIS Technical Support
March, 2008 (JPRM)

```
PROC FREQ;
TABLE WHAT*CKEY / NOCUM NOROW NOCOL NOPERCENT;
RUN;

DATA TWO;
SET ALLBACK;

* BUTLER REQUEST: JULY 31, 2006 P.QUINN ;

IF SLICER = 'K' AND PROVNO = '000000002516' AND SUBSTR(PROCCODE,1,5) = 'T1009'
THEN DELETE ;

* SHARON BAKER, HAMILTON MH REQUEST: OCTOBER 12, 2002 ;
* ORIGINAL CODE COMMENTED OUT -- REPLACEMENT CODE DECEMBER 5, 2002 ;
* AGAIN FROM SHARON BAKER ;

* ORIGINAL CODE HERE SHARON BAKER REQUESTED EXCLUDES -- AS OF OCTOBE 12, 2002 ;
* IF SLICER IN ('H ','N ') AND PROVNO = '000000006691' AND SUBSTR(PROCCODE,1,7) = 'M161000'
THEN DELETE ;
* IF SLICER IN ('H ','N ') AND PROVNO = '000000006796' AND SUBSTR(PROCCODE,1,7)
IN ('M161000','M162000','M226003') THEN DELETE ;

IF SLICER IN ('H ','N ') AND PROVNO = '000000010330' AND SUBSTR(PROCCODE,1,5) = 'M2260' THEN
DELETE ;

DATA STORE.HMCDOUT (PASSWD,ENCRYPT)
STORE.HNONOUT (PASSED,ENCRYPT) ;
SET TWO;

IF (CKEY = 'MH' AND
( (MEDDEF GE '1000' AND MEDDEF LE '1899')
OR (MEDDEF GE '2000' AND MEDDEF LE '2899') ))
OR
(CKEY = 'AD' AND
( (MEDDEF GE '5000' AND MEDDEF LE '5199')
OR (MEDDEF GE '6000' AND MEDDEF LE '6019') ))
THEN OUTPUT STORE.HMCDOUT ;
ELSE OUTPUT STORE.HNONOUT ;
RUN;

DATA _NULL_ ;
X = 'TRIAL RUN';
RUN;

* options macrogen symbolgen mprint ;
run;

%include '/sasdata/hipaa/outliers/temp/outs.board.mcd.1.sas' / source2;
run;
%include '/sasdata/hipaa/outliers/temp/outs.board.non.2.sas' / source2;
run;
%include '/sasdata/hipaa/outliers/temp/outs.prov.mcd.3.sas' / source2;
run;
%include '/sasdata/hipaa/outliers/temp/outs.prov.non.4.sas' / source2;
run;

DATA _NULL_ ;
Y = 'TRIAL RUN';
RUN;

%include '/sasdata/hipaa/holds/temp/holds.board.mcd.1.sas' / source2;
run;
%include '/sasdata/hipaa/holds/temp/holds.board.non.2.sas' / source2;
run;
%include '/sasdata/hipaa/holds/temp/holds.prov.mcd.3.sas' / source2;
run;
%include '/sasdata/hipaa/holds/temp/holds.prov.non.4.sas' / source2;
run;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* ===== December, 2003 */
/* outs.board.mcd.1.sas */
/* ----- */
/* */
/* VERSION 9 - MAY, 2006 */
/* */
/* JUNE 2, 2007 -- ADJUST CLAIM LENGTH - 4 */
/* PLACES. */
/* */
/* JULY 1 -- HANDLE WESTERN RESERVE SPLIT-UP */
/* */
/* ----- */

libname pass v9 '/sasdata/claims';
libname claims v9 '/sasdata/hipaa/claims';
libname jp v9 '/sasdata/hipaa/outliers/data';
libname library v9 '/sasdata/library_9';

filename cycle '/sasdata/hipaa/outliers/test/bdmcd/dummy.dat';
filename script '/sasdata/hipaa/outliers/test/bdmcd/ftp.outlier.mcd.bd.reports';

%LET STORAGE=/sasdata/hipaa/outliers/test/bdmcd/;

DATA START;
SET CLAIMS.HMCDOUT;
IF PROCSTAT = 'U' ;

* THIS IS ORIGINAL 2002 DOUG DAY DELELTE REQUEST ;
* ADJUSTED IN FEB OF 2008 TO ALLOW MUSKINGUM OUTLIERS ;
* THOURGH THE 6755 FILTER ;

IF PROVNO = '000000006755' THEN DO;

    IF CKEY = 'AD' AND COMPANY NE 'MUSKB' THEN DELETE ;

END;

* CHANGING CLAIM TO 12 BYTES AS OF JUNE 2, 2007 RUN ;

DATA ONE;
LENGTH CLAIM $12 UPI 4;
SET START;

what=put(proccode,$hproc.);
UPI=PUT(PROVNO,12.);

* CHANGING SUBSTR STARTING POINT TO POSITION 6 FROM 7 - JUNE 2, 2007 ;

IF SUBSTR(CLAIMNO,1,6) = '000000'
    THEN DO;
CLAIM = SUBSTR(CLAIMNO,6);
END;
format sdate indate mmdyy8.;
informat sdate indate mmdyy8. ;
*proc fsedit;
RUN;

DATA TWO;
LENGTH W $3 ;
SET ONE;

IF SLICER IN ('1') AND COMPANY = 'LORAA' THEN W = '47A';
IF SLICER IN ('1') AND COMPANY = 'LORAM' THEN W = '47M';
IF SLICER IN ('r') THEN W = '02B';
IF SLICER IN ('Z') THEN W = '03B';
IF SLICER IN ('e') THEN W = '05B';
IF SLICER IN ('f') THEN W = '07B';
```

MACSIS Technical Support
March, 2008 (JPRM)

```
IF SLICER IN ('K') THEN W = '09B';
IF SLICER IN ('E') THEN W = '12B';
IF SLICER IN ('5') THEN W = '13B';
IF SLICER IN ('R','T') AND CKEY = 'AD' THEN W = '18A';
IF SLICER IN ('C','T') AND CKEY = 'MH' THEN W = '18M';
IF SLICER IN ('6') THEN W = '20B';
IF SLICER IN ('t') THEN W = '22B';
IF SLICER IN ('P') THEN W = '23B';
IF SLICER IN ('F') THEN W = '25B';
IF SLICER IN ('g') THEN W = '27B';
IF SLICER IN ('q') THEN W = '77B';
IF SLICER IN ('7') THEN W = '28B';
IF SLICER IN ('J','N') AND CKEY = 'AD' THEN W = '31A';
IF SLICER IN ('H','N') AND CKEY = 'MH' THEN W = '31M';
IF SLICER IN ('u') THEN W = '39B';
IF SLICER IN ('a') THEN W = '41B';
IF SLICER IN ('8') THEN W = '43B';
IF SLICER IN ('X') THEN W = '45B';
IF SLICER IN ('V','L','D') THEN W = '48B';
IF SLICER IN ('b') THEN W = '50B';
IF SLICER IN ('2') AND COMPANY IN ('MAHOA','MAHOM') THEN W = '50B';
IF SLICER IN ('Q') THEN W = '52B';
IF SLICER IN ('W') THEN W = '55B';
IF SLICER IN ('M') THEN W = '57B';
IF SLICER IN ('h') THEN W = '60B';
IF SLICER IN ('w') THEN W = '68B';
IF SLICER IN ('x') THEN W = '69B';
IF SLICER IN ('n') THEN W = '70B';
IF SLICER IN ('Y') THEN W = '71B';
IF SLICER IN ('d') THEN W = '73B';
IF SLICER IN ('S','3','s') THEN W = '76B';
IF SLICER IN ('2') AND COMPANY IN ('TRUMB') THEN W = '76B';
* IF SLICER IN ('2') THEN W = '78B';
IF SLICER IN ('m') THEN W = '79B';
IF SLICER IN ('v') THEN W = '81B';
IF SLICER IN ('B') THEN W = '83B';
IF SLICER IN ('k') THEN W = '84B';
IF SLICER IN ('y') THEN W = '87B';
IF SLICER IN ('4') THEN W = '90A';

IF SLICER = ' ' THEN DO;
    W=SUBSTR(BATCH,2,3) ;
END;

WHOGETS=W ;
WHO=W;

* DATA JP.MCDBD&DSN;
* SET TWO;
RUN;

OPTIONS PAGENO=1 DATE;

PROC FREQ DATA=TWO;
TABLES WHOGETS / OUT=TEMP NOPRINT ;

DATA SCRIPT_INFO;
SET TEMP;
*PROC FSEDIT;
RUN;

PROC PRINT UNIFORM DATA=TEMP;
VAR WHOGETS COUNT ;
SUM COUNT;
TITLE 'Cross Reference Page -- BOARD MCD REPORT';
TITLE2 "These Files should have been Created on &SYSDATE9";
FOOTNOTE ' ' ;
RUN;

DATA CHECK;
SET TWO;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
TYPE1 = 0;
TYPE2 = 0;
IF QUANTITY GT 5 THEN TYPE1 = 1;
IF ALLOWED GE 400 THEN TYPE2 = 1;

ODS LISTING CLOSE;
RUN;

DATA _NULL_ ;
SET TEMP;
call symput('MA' || left(put(_n_,3.)), trim(left(WHOGETS)));
call symput('MAX' , left(put(_n_,3.)));
run;

/* USE MACRO VARIABLES mal-ma&max AND mbl-mb&max TO GENERATE */
/* A SERIES OF SUBSETTING DATA/PROC STEPS. */

%macro gencode1;
  %do i=1 %to &max;

    /* IF VERSION 5, USE THE FOLLOWING SUBSETTING DATA STEP. */
    options pageno=1 nodate ls=132;
    data temp;
    set TWO;
    if WHOGETS="&&ma&i" ;
    call symput('who',left(compress(whogets)));
  run;

  ods printer PDF
    file="&storage&who..HIPAA.BD.CAUTION.MCD.&when..PDF";

  TITLE1 "Board Summary Notify/Caution Report for MCD Claims: &SYSDATE9" ;
  TITLE2 "Please note these claims were added into MACSIS between &BEGIN and &END ";
  TITLE4 'Because they either (1) report large numbers of service units or (2) specify more
    than $400 (Allowed Amount)' ;
  TITLE5 'we believe you should explicitly review these claims before they are finalized (in
    APUPD).';

  FOOTNOTE 'This information is confidential and protected by Sect. 42 CFR, Part 2, Federal
    confidentiality rules.';
  FOOTNOTE2 'Further disclosure is prohibited by the Federal rules unless expressly permitted
    by written consent of';
  FOOTNOTE3 'the person to whom it pertains or as otherwise permitted by 42 CFR, Part 2.';

  DATA _NULL_;
  SET TEMP ;

  * CHANGING FORMAT OF CLAIM FROM CHAR10 TO CHAR12 ;

  PROC PRINT UNIFORM LABEL ;
  VAR CLAIM SDATE SUBNO UPI PROCCODE WHAT PROCSTAT ALLOWED QUANTITY;
  FORMAT CLAIM $CHAR12.; LABEL SUBNO = 'UCI';
  FORMAT PROCCODE $CHAR8. ; FORMAT WHAT $CHAR25. ;
  FORMAT SDATE MMDDYY8. ; LABEL SDATE = 'DOS';
  FORMAT ALLOWED DOLLAR8.2 ;
  FORMAT QUANTITY 6.1; LABEL QUANTITY = 'UNITS';

  RUN;
ods printer close ;
RUN;

  %end;

%mend gencode1;

%gencode1
run;
ODS LISTING ;
RUN;

DATA ADD_INFO;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
LENGTH TARGET $3 ;
SET PASS.PWORD;
WHOGETS=BNUM ;
LOCUS=LOCUS1;
TARGET=SUBSTR(LOCUS,1,3);

PROC SORT DATA=ADD_INFO;
BY WHOGETS;

PROC SORT DATA=SCRIPT_INFO;
BY WHOGETS;

DATA DOGGIE;
MERGE ADD_INFO (IN=IN1)
      SCRIPT_INFO (IN=IN2);
BY WHOGETS;
IF IN2=1 ;

* PROC FSEDIT DATA=DOGGIE;
RUN;

DATA SCRIPT_WRITER;
SET DOGGIE END=EOF ;
T2=TARGET || '.' || "&SYSDATE" || '.encrypted.outliers.mcd.zip';
T3=TARGET || '*.PDF';

FILE SCRIPT NOPRINT ;

IF _N_ = 1 THEN DO;
PUT
@1 '#!/usr/bin/ksh'
@1 / '# getalong.board.mcd.doggies for ' "&SYSDATE9"
@1 / '# Distribute Claims Notify Files on mhub'
@1 / '# Originally Developed by JPRM: May 17, 2001'
@1 / '# ' ;
END;

PUT
@1 '# '
@1 / 'pkzipc -add -cryptalgorithm=aes,256 -passphrase=' pw_phrase ' ' T2 ' ' T3
@1 / '# '
@1 / 'ftp -n mhub.odn.state.oh.us <<END' bnum
@1 / 'user ' signon ' ' pword
@1 / 'cd /county/' locus
@1 / 'pwd'
@1 / 'mput ' @6 whogets $CHAR3. @9 '*.zip'
@1 / 'quit'
@1 / 'END' bnum
@1 / '#';

IF EOF THEN DO ;
PUT
@1 'echo ALL DONE';
END;

RETURN;
RUN;

DATA _NULL_;
SET ONE(OBS=1);
CALL SYSTEM('cd /sasdata/hipaa/outliers/test/bdmcd/');
CALL SYSTEM('chmod 770 ftp.outlier.mcd.bd.reports');
CALL SYSTEM('ftp.outlier.mcd.bd.reports');
CALL SYSTEM('cd /sasdata/hipaa/outliers/test/bdmcd/');
CALL SYSTEM('rm -f * ');
RUN;

filename outbox email "martinjp@mh.state.oh.us";
```

MACSIS Technical Support
March, 2008 (JPRM)

```
data _null_;
retain numb total;
set script_info end=eof;

file outbox
subject="HIPAA MCD BOAORD:  &SYSDATE"
      cc="macsissupport@mh.state.oh.us" ;

if _n_ = 1 then do ;
numb = 0;
total = 0;
put
@1 / 'To Whom it May Concern,'
@1 / ' '
@1 / 'This weeks Notify about Claims Outliers report '
@1 / 'involved the following Boards: '
@1 / ' ' ;
end;

numb +1;
total = total + count;
put
  @2 numb      3.
  @10 whogets
  @20 count commal0.0;

if eof then do;
put
  // @20 total commal0.0
  // @5 "This action performed at %SYSFUNC(DATETIME()),DATETIME.)."
;
end;

RUN;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* ===== December, 2003 */
/* outs.board.non.2.sas */
/* ----- */
/* */
/* ADJUST CLAIM LENGTH INFO 4 PLACES - JUNE,07 */
/* */
/* NOW HANDLES WESTERN RESERVE SPLIT IN JULY OF */
/* 2007 */
/* */
/* ----- */

libname pass v9 '/sasdata/claims';
libname claims v9 '/sasdata/hipaa/claims';
libname library v9 '/sasdata/library_9';
FILENAME CYCLE '/sasdata/hipaa/outliers/test/bdnon/dummy.dat';
FILENAME SCRIPT '/sasdata/hipaa/outliers/test/bdnon/ftp.outlier.non.bd.reports';

%LET STORAGE=/sasdata/hipaa/outliers/test/bdnon/;

DATA START;
SET CLAIMS.HNONOUT;
IF PROCSTAT = 'U';

* THIS IS ORIGINAL 2002 DOUG DAY DELELTE REQUEST ;
* ADJUSTED IN FEB OF 2008 TO ALLOW MUSKINGUM OUTLIERS ;
* THOURGH THE 6755 FILTER ;

IF PROVNO = '000000006755' THEN DO;

    IF CKEY = 'AD' AND COMPANY NE 'MUSKB' THEN DELETE ;

END;

RUN;

DATA ONE;
LENGTH CLAIM $12 UPI 4;
SET START;

what=put(proccode,$hproc.);
UPI=PUT(PROVNO,12.);

IF SUBSTR(CLAIMNO,1,6) = '000000'
    THEN DO;
CLAIM = SUBSTR(CLAIMNO,6);
END;
format sdate indate mmddy8.;
informat sdate indate mmddy8. ;
*proc fsedit;
RUN;

DATA TWO;
LENGTH W $3 ;
SET ONE;

IF SLICER IN ('1') AND COMPANY = 'LORAA' THEN W = '47A';
IF SLICER IN ('1') AND COMPANY = 'LORAM' THEN W = '47M';
IF SLICER IN ('r') THEN W = '02B';
IF SLICER IN ('z') THEN W = '03B';
IF SLICER IN ('e') THEN W = '05B';
IF SLICER IN ('f') THEN W = '07B';
IF SLICER IN ('K') THEN W = '09B';
IF SLICER IN ('E') THEN W = '12B';
IF SLICER IN ('5') THEN W = '13B';
IF SLICER IN ('R','T') AND CKEY = 'AD' THEN W = '18A';
IF SLICER IN ('C','T') AND CKEY = 'MH' THEN W = '18M';
IF SLICER IN ('6') THEN W = '20B';
IF SLICER IN ('t') THEN W = '22B';
IF SLICER IN ('P') THEN W = '23B';
IF SLICER IN ('F') THEN W = '25B';
```

MACSIS Technical Support
March, 2008 (JPRM)

```
IF SLICER IN ('g') THEN W = '27B';
IF SLICER IN ('q') THEN W = '77B';
IF SLICER IN ('7') THEN W = '28B';
IF SLICER IN ('J','N') AND CKEY = 'AD' THEN W = '31A';
IF SLICER IN ('H','N') AND CKEY = 'MH' THEN W = '31M';
IF SLICER IN ('u') THEN W = '39B';
IF SLICER IN ('a') THEN W = '41B';
IF SLICER IN ('8') THEN W = '43B';
IF SLICER IN ('X') THEN W = '45B';
IF SLICER IN ('V','L','D') THEN W = '48B';
IF SLICER IN ('b') THEN W = '50B';
IF SLICER IN ('2') AND COMPANY IN ('MAHOA','MAHOM') THEN SLICER = '50B';
IF SLICER IN ('Q') THEN W = '52B';
IF SLICER IN ('W') THEN W = '55B';
IF SLICER IN ('M') THEN W = '57B';
IF SLICER IN ('h') THEN W = '60B';
IF SLICER IN ('w') THEN W = '68B';
IF SLICER IN ('x') THEN W = '69B';
IF SLICER IN ('n') THEN W = '70B';
IF SLICER IN ('Y') THEN W = '71B';
IF SLICER IN ('d') THEN W = '73B';
IF SLICER IN ('S','3','s') THEN W = '76B';
IF SLICER IN ('2') AND COMPANY = 'TRUMB' THEN W = '76B';
* IF SLICER IN ('2') THEN W = '78B';
IF SLICER IN ('m') THEN W = '79B';
IF SLICER IN ('v') THEN W = '81B';
IF SLICER IN ('B') THEN W = '83B';
IF SLICER IN ('k') THEN W = '84B';
IF SLICER IN ('y') THEN W = '87B';
IF SLICER IN ('4') THEN W = '90A';
```

```
IF SLICER = ' ' THEN DO;
    W=SUBSTR(BATCH,2,3) ;
END;
```

```
WHOGETS=W ;
WHO=W;
```

```
* DATA JP.NON&DSN;
* SET TWO;
RUN;
```

```
OPTIONS PAGENO=1 DATE;
```

```
PROC FREQ DATA=TWO;
TABLES WHOGETS / OUT=TEMP NOPRINT ;
```

```
DATA SCRIPT_INFO;
SET TEMP;
*PROC FSEDIT;
RUN;
```

```
PROC PRINT UNIFORM DATA=TEMP;
VAR WHOGETS COUNT ;
SUM COUNT;
TITLE 'Cross Reference Page: Non-MCD';
TITLE2 "These Files should have been Created on &SYSDATE9";
FOOTNOTE ' ' ;
RUN;
```

```
DATA CHECK;
SET TWO;
TYPE1 = 0;
TYPE2 = 0;
IF QUANTITY GT 5 THEN TYPE1 = 1;
IF ALLOWED GE 400 THEN TYPE2 = 1;
```

```
ODS LISTING CLOSE;
RUN;
```

```
DATA _NULL_ ;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
SET TEMP;
call symput('MA' || left(put(_n_,3.)), trim(left(WHOGETS)));
call symput('MAX' , left(put(_n_,3.)));
run;

/* USE MACRO VARIABLES mal-ma&max AND mbl-mb&max TO GENERATE */
/* A SERIES OF SUBSETTING DATA/PROC STEPS. */

%macro gencode1;
  %do i=1 %to &max;

    /* IF VERSION 5, USE THE FOLLOWING SUBSETTING DATA STEP. */
    options pageno=1 nodate ls=132;
    data temp;
    set TWO;
    if WHOGETS="&&ma&i" ;
    call symput('who',left(compress(whogets)));
  run;

  ods printer PDF
    file="&storage&who..HIPAA.BD.CAUTION.NON.&when..PDF";

  TITLE1 "Board Level Notify/Caution Non-Medicaid Report for: &SYSDATE9" ;
  TITLE2 "Please note these claims were added into MACSIS between &BEGIN and &END " ;
  TITLE4 'Because they either (1) report large numbers of service units or (2) specify more
    than $400 (Allowed Amount)' ;
  TITLE5 'we believe you should explicitly review these claims before they are finalized (in
    APUPD).';

  FOOTNOTE 'This information is confidential and protected by Sect. 42 CFR, Part 2, Federal
    confidentiality rules.';
  FOOTNOTE2 'Further disclosure is prohibited by the Federal rules unless expressly permitted
    by written consent of';
  FOOTNOTE3 'the person to whom it pertains or as otherwise permitted by 42 CFR, Part 2.';

  DATA _NULL_;
  SET TEMP ;

  PROC PRINT UNIFORM LABEL ;
  VAR CLAIM SDATE SUBNO UPI PROCCODE WHAT PROCSTAT ALLOWED QUANTITY;
  FORMAT CLAIM $CHAR12.; LABEL SUBNO = 'UCI';
  FORMAT PROCCODE $CHAR8. ; FORMAT WHAT $CHAR25. ;
  FORMAT SDATE MMDYY8. ; LABEL SDATE = 'DOS';
  FORMAT ALLOWED DOLLAR8.2 ;
  FORMAT QUANTITY 6.1; LABEL QUANTITY = 'UNITS';

  RUN;
  ods printer close ;
  RUN;

  %end;

%mend gencode1;

%gencode1
run;
ODS LISTING ;
RUN;

DATA ADD_INFO;
LENGTH TARGET $3 ;
SET PASS.PWORD;
WHOGETS=BNUM ;
LOCUS=LOCUS1;
TARGET=SUBSTR(LOCUS,1,3);

PROC SORT DATA=ADD_INFO;
BY WHOGETS;

PROC SORT DATA=SCRIPT_INFO;
BY WHOGETS;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
DATA DOGGIE;
MERGE ADD_INFO (IN=IN1)
      SCRIPT_INFO (IN=IN2);
BY WHOGETS;
IF IN2=1 ;

* PROC FSEDIT DATA=DOGGIE;
RUN;

DATA SCRIPT_WRITER;
SET DOGGIE END=EOF ;
T2=TARGET || '.' || "&SYSDATE" || '.encrypted.outliers.board.nonmcd.zip';
T3=TARGET || '*.PDF';

DATA _NULL_;
SET SCRIPT_WRITER END=EOF ;

FILE SCRIPT NOPRINT ;

IF _N_ = 1 THEN DO;
PUT
@1 '#!/usr/bin/ksh'
@1 / '# getalong.nonmcd.doggies for ' "&SYSDATE9"
@1 / '# Distribute Claims Notify Files on mhub'
@1 / '# Originally Developed by JPRM: May 17, 2001'
@1 / '# ' ;
END;

PUT
@1 '#'
@1 / 'pkzipc -add -cryptalgorithm=aes,256 -passphrase=' pw_phrase ' ' T2 ' ' T3

@1 / 'ftp -n mhub.odn.state.oh.us <<END' bnum
@1 / 'user ' signon ' ' pword
@1 / 'cd /county/' locus
@1 / 'pwd'
@1 / 'put ' @6 whogets $CHAR3. @9 '*.zip'
@1 / 'quit'
@1 / 'END' bnum
@1 / '#';

IF EOF THEN DO ;
PUT
@1 'echo ALL DONE';
END;

RETURN;
RUN;

DATA _NULL_;
SET ONE(OBS=1);
CALL SYSTEM('cd /sasdata/hipaa/outliers/test/bdnon/');
CALL SYSTEM('chmod 770 ftp.outlier.non.bd.reports');
CALL SYSTEM('ftp.outlier.non.bd.reports');
CALL SYSTEM('cd /sasdata/hipaa/outliers/test/bdnon/');
CALL SYSTEM('rm -f * ');
RUN;

filename outbox email "macsisupport@mh.state.oh.us";

data _null_;
retain numb total;
set script_info end=eof;

file outbox
subject="HIPAA NON BOARD REPORTS: &SYSDATE"
;

if _n_ = 1 then do ;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
numb = 0 ;
total = 0;
put
@1 / 'To Whom it May Concern,'
@1 / ' '
@1 / 'This weeks Notify about NONMCD Claims Outliers report '
@1 / 'involved the following Boards: '
@1 / ' ' ;
end;

numb + 1;
total = total + count ;

put
  @2 numb      3.
  @10 whogets
  @20 count comma10.0;

if eof then do;
put
  // @20 total comma10.0
  // @5 "This action performed at %SYSFUNC(DATETIME()),DATETIME.)."
;
end;

run;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
DATA _NULL_ ; /* DOCUMENTATION */

/* ===== December, 2003 */
/* outs.prov.mcd.3.sas */
/* ----- */
/* */
/* JUNE,07 - ADJUST CLAIM LENGTH 3 PLACES */
/* */
/* ACCOMDATES WESTERN RESERVE SPLIT IN JULY OF */
/* 2007 */
/* ----- */

RUN;

OPTIONS ORIENTATION=LANDSCAPE;
RUN;

libname pass v9 '/sasdata/claims';
libname CLAIMS v9 '/sasdata/hipaa/claims';
libname cycle v9 '/sasdata/hipaa/outliers/test/provmcd/dummy.dat';
libname library v9 '/sasdata/library_9';

FILENAME SCRIPT '/sasdata/hipaa/outliers/test/provmcd/ftp.outlier.mcd.prov.reports';

%LET storage=/sasdata/hipaa/outliers/test/provmcd/;

* SUBSET DELETED BELOW IS REQUEST BY DOUG DAY OF ODADAS;
* ORIGINALLY MADE IN MHPROD NOTIFY AND CARRIED ON HERE ;

DATA START;
SET CLAIMS.HMCDOUT;
IF PROCSTAT = 'U';

* THIS IS ORIGINAL 2002 DOUG DAY DELELTE REQUEST ;
* ADJUSTED IN FEB OF 2008 TO ALLOW MUSKINGUM OUTLIERS ;
* THOURGH THE 6755 FILTER ;

IF PROVNO = '00000006755' THEN DO;

IF CKEY = 'AD' AND COMPANY NE 'MUSKB' THEN DELETE ;

END;

* IF CKEY = 'AD' AND PROVNO = '00000006755' THEN DELETE ;

RUN;

* MOSTLY VARIABLE APPEARANCE CHANGES ARE PUT IN PLACE, I.E., REMOVING LEAD ;
* ZEROES AND THE LIKE. THE WHOGETS VARIABLE IS A COMBINATION OF 3 CHARACTER ;
* BOARD ID AND UPI ... LIKE "18A.10683" ;

DATA ONE;
LENGTH CLAIM $12 UPI 4 BCHECK $3 ;
SET START;
UPI= PUT(PROVNO,12.);
VERIFIED = ' ';
BCHECK = SUBSTR(BATCH,2,3);

IF SUBSTR(CLAIMNO,1,6) = '000000'
THEN DO;
CLAIM = SUBSTR(CLAIMNO,6);
END;

FORMAT SDATE INDATE MMDDYY8. ;
INFORMAT SDATE INDATE MMDDYY8. ;
RUN;

DATA TWO;
LENGTH W $3 ;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
SET ONE;

IF SLICER IN ('1') AND COMPANY = 'LORAA' THEN W = '47A';
IF SLICER IN ('1') AND COMPANY = 'LORAM' THEN W = '47M';
IF SLICER IN ('r') THEN W = '02B';
IF SLICER IN ('Z') THEN W = '03B';
IF SLICER IN ('e') THEN W = '05B';
IF SLICER IN ('f') THEN W = '07B';
IF SLICER IN ('K') THEN W = '09B';
IF SLICER IN ('E') THEN W = '12B';
IF SLICER IN ('5') THEN W = '13B';
IF SLICER IN ('R','T') AND CKEY = 'AD' THEN W = '18A';
IF SLICER IN ('C','T') AND CKEY = 'MH' THEN W = '18M';
IF SLICER IN ('6') THEN W = '20B';
IF SLICER IN ('t') THEN W = '22B';
IF SLICER IN ('P') THEN W = '23B';
IF SLICER IN ('F') THEN W = '25B';
IF SLICER IN ('g') THEN W = '27B';
IF SLICER IN ('q') THEN W = '77B';
IF SLICER IN ('7') THEN W = '28B';
IF SLICER IN ('J','N') AND CKEY = 'AD' THEN W = '31A';
IF SLICER IN ('H','N') AND CKEY = 'MH' THEN W = '31M';
IF SLICER IN ('u') THEN W = '39B';
IF SLICER IN ('a') THEN W = '41B';
IF SLICER IN ('8') THEN W = '43B';
IF SLICER IN ('X') THEN W = '45B';
IF SLICER IN ('V','L','D') THEN W = '48B';
IF SLICER IN ('b') THEN W = '50B';
IF SLICER IN ('2') AND COMPANY IN ('MAHOA','MAHOM') THEN W = '50B';
IF SLICER IN ('Q') THEN W = '52B';
IF SLICER IN ('W') THEN W = '55B';
IF SLICER IN ('M') THEN W = '57B';
IF SLICER IN ('h') THEN W = '60B';
IF SLICER IN ('w') THEN W = '68B';
IF SLICER IN ('x') THEN W = '69B';
IF SLICER IN ('n') THEN W = '70B';
IF SLICER IN ('Y') THEN W = '71B';
IF SLICER IN ('d') THEN W = '73B';
IF SLICER IN ('S','3','s') THEN W = '76B';
IF SLICER IN ('2') AND COMPANY IN ('TRUMB') THEN W = '76B';
* IF SLICER IN ('2') THEN W = '78B';
IF SLICER IN ('m') THEN W = '79B';
IF SLICER IN ('v') THEN W = '81B';
IF SLICER IN ('B') THEN W = '83B';
IF SLICER IN ('k') THEN W = '84B';
IF SLICER IN ('y') THEN W = '87B';
IF SLICER IN ('4') THEN W = '90A';

IF SLICER = ' ' THEN DO;
    W=SUBSTR(BATCH,2,3) ;
END;

WHOGETS=W || '.' || trim(left(upi));

RUN;
TITLE ' ' ;

OPTIONS PAGENO=1 DATE;

/* THIS IS VERY IMPORTANT STEP. THE TEMP FILE CREATED HERE GOVERNS MUCH THAT */
/* HAPPENS LATER. THE TEMP DATASET CONTAINS ONE RECORD FOR EVERY LEVEL OF THE */
/* WHOGETS VARIABLE .. EVERY BOARD.UPI COMBINATION IN THE DATASET. THIS FILE */
/* PROVIDES INFO USED TO GOVERN THE FILE CONSTRUCTION LATER. */

TITLE 'PROVIDER MCD';
PROC FREQ DATA=TWO;
TABLES WHOGETS / OUT=TEMP NOPRINT ;

* PROC FSEDIT DATA=TEMP;
RUN;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
PROC PRINT UNIFORM DATA=TEMP;
VAR WHOGETS COUNT ;
SUM COUNT;
TITLE 'MCD NOTIFY REPORTS BY BOARD-PROVIDER COMBINATION - QUICK COUNT';
TITLE2 "THESE FILES CREATED ON &SYSDATE9";
FOOTNOTE ' ' ;
RUN;

TITLE ' ' ;
FOOTNOTE ' ' ;
RUN;

/* THIS IS JUST HOOPIE STUFF. FOR SOME REASON I WANTED A MORE COMPLEX */
/* SUMMARY OF WHAT RECORDS WERE BEING OUTPUT. THE DATA SET AND TABULATE */
/* SIMPLY GET THAT DONE. */

DATA CHECK;
SET TWO;
TYPE1 = 0;
TYPE2 = 0;
IF QUANTITY GT 5 THEN TYPE1 = 1;
IF ALLOWED GE 400 THEN TYPE2 = 1;
BOARD=SUBSTR(WHOGETS,1,3);
RUN;

/* THE LITTLE ODS LINE HERE STOPS A PARALLEL COPY OF EACH PDF FROM BEING */
/* SIMULTANEOUSLY BEING WRITTEN TO OUTPUT WINDOW AS WELL AS PDF. NOT A */
/* BIG DEAL HERE, CAN BE IN THE REMIT AND TRACKING PROGRAMS WHICH CREATE */
/* THOUSANDS OF FILES AND OVERFLOW THE OUTPUT WINDOW! */

ODS LISTING CLOSE;
RUN;

/* BIG TIME IMPORANT STEP: THIS CREATES A WHOLE BUNCH OF (GLOBAL) MACRO */
/* VARIABLES, ONE FOR EVERY LEVEL OF WHOGETS. THIS STEP CREATES THREE THINGS */
/* THE NAME OF THE MACRO VARIABLE SERIES, EACH VALUE, AND A SINGLE MAX MACRO VARIABLE */
/* SO IN THE JULY 21 RUN, SOME 55 "MA" MACRO VARIABLES WERE CREATED, MA1 THRU */
/* MA55 ... and MAX HAD A VALLUE OF 55. WHOGETS HAD 55 LEVELS. */
/* MA1 WAS 02B.1003, MA2 was 05B.1018 */
/* YOU CAN SEE ALL THESE BY USING A "%PUT _ALL%;" LINE IN AFTER THE REST OF PROGRAM. */

DATA _NULL_ ;
SET TEMP;
call symput('MA'||left(put(_n_,3.)), trim(left(WHOGETS)));
call symput('MAX' , left(put(_n_,3.)));
RUN;

/* HERE COMES THE MACRO DEFINITION. THIS MACRO GETS CALLED OR EXECUTED LATER, */
/* THIS IS JUST THE DEFINITION. DON'T BE CONFUSED. CODE IS COMPILED NOW BUT */
/* EXECUTED LATER WHEN THE MACRO IS "CALLED." THE MACROS IS NAMED */
/* GENCODE1 -- GENERATE CODE 1 */

%macro gencodel;
  %do i=1 %to &max;

    /* OK, THE MACRO IS TOLD TO REPEAT THE ENCLOSED DATA STEP "MAX" TIMES, */
    /* START WITH I=1 AND DO THE STEP REPEATEDLY TILL I=MAX. SO EXECUTE */
    /* THE CODE BELOW ONCE FOR EVERY LEVEL OF WHOGETS (ON JULY 21, 55 TIMES) */

    OPTIONS CENTER PAGENO=1 NODATE LS=175 ;

    DATA ONEPASS;
      SET TWO;
      IF WHOGETS="&&ma&i" ;

      /* SO ON FIRST PASS: I=1 AND &&MA&I RESOLVES TO MA1 WHICH HAS A VALUE OF 02B.1003 */
      /* ON PASS 55: I=55 AND &&MA&I RESOLVES TO 83B.8434 (AT LEAST ON JULY 21) */
      /* ----- */
      /* ON EACH PASS, DATA SET ONE IS SUBSET TO A "ONEPASS" SET OF RECORDS: FIRST TIME */
      /* FOR WHOGETS VALUE OF 02B.1103, ETC. THE REMAINING CODE CREATED MACROVARIABLES */
  %end;
%end;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* TO BE USED IN TITLES AND EVEN IN THE FILE NAME CONSTRUCTION. SO THIS IS USING */
/* DATA VALUES TO HAVE FILENAME AND TITLES CHANGE WITH EACH PASS THROUGH */

name1=put(upi,provf.);
place_name=name1 || ' (' || W || '-' || trim(left(upi)) || ')';
call symput('who',left(compress(whogets)));
call symput('pname',trim(left(place_name)));
RUN;

/* NOW THE ACTUAL PDF OUPUT. NOTE IS NOW USING "NATIVE" PDF ENGINE. SO ACRBAT */
/* WRITE SOFTWARE NO LONGER CALLED OR NEEDED. THIS REQUIRES VERSION 8.2 -- THIS */
/* CODE WORKS UNDER PC OR UNIX VERSION OF 8.2 */
/* NOTE: IT IS IMPT TO THE SCRIPT THAT FILENAME BE ALL IN CAPS! */

ods printer PDF
      file="&storage&who..HIPAA.PROV.CAUTION.MCD.&when..PDF";

TITLE1 "Provider by Board MCD Data Quality(Notify)Report for &pname : &SYSDATE9" ;
TITLE2 "Please note these claims were added into MACSIS between &BEGIN and &END ";
TITLE4 "Because providers either (1) report large numbers of service units or (2) specify
      more than $400" ;
TITLE5 "(Allowed Amount)we believe you should verify these claims before they are finalized
      (in APUPD).";

FOOTNOTE 'Reviewer Signature: _____ Date:
      ___/___/___ ' ;
FOOTNOTE3 'Printed Name: _____';

FOOTNOTE5 'This information is confidential and protected by Sect. 42 CFR, Part 2, Federal
      confidentiality rules.';
FOOTNOTE6 'Further disclosure is prohibited by the Federal rules unless expressly permitted
      by written consent of';
FOOTNOTE7 'the person to whom it pertains or as otherwise permitted by 42 CFR, Part 2.';

PROC PRINT UNIFORM LABEL DATA=ONEPASS;
VAR Verified CLAIM SDATE UDEF2 BATCH SUBNO PROCCODE PROCMOD GLREF MEDDEF CLMSTAT
PROCSTAT BILLAMT ALLOWED QUANTITY;
LABEL BATCH = 'Batch';
LABEL Verified = 'Verify';
LABEL PROCMOD = 'MOD';
LABEL PROCSTAT = 'PS';
LABEL CLMSTAT = 'CS';
LABEL PROCCODE = 'PROC.';
FORMAT BILLAMT ALLOWED 7.2 ;
FORMAT QUANTITY 4.1 ;
LABEL BILLAMT = 'BILLED';
LABEL ALLOWED = 'ALLOW';
LABEL QUANTITY = 'UNITS';
LABEL UDEF2 = 'PAT_CON';
LABEL SDATE = 'DOS';
LABEL MEDDEF = 'MEDDEF';

RUN;

ods printer close ;
RUN;

%end;

%mend gencode1;

/* HERE IS THE ONE AND ONLY REAL MACRO CALL */

%gencode1
run;

/* THIS LINE TURNS BACK ON THE USE OF THE OUTPUT WINDOW */

ODS LISTING ;
RUN;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* THE PASSWORD FILE USED TO BUILD AUTOMATING SCRIPT FOR FTP OF DATA FILE */
/* FROM MHDW TO PROPER AREAS ON MHHUB. PWORD IS MAINTAINED ON MHDW BY */
/* JP AND CONTAINS LATEST BOARD FTP ACCOUNT PASSWORDS. */
/* ----- */
/* THE PWORD VARIABLES NAMES DON'T FIT AND NEED RENAMING .. I WAS LEAVING */
/* CONCEPTUAL SPACE IN PWORD TO DO OTHER THINGS LATER, LIKE SUPPORT DIF */
/* OUTPUT DIRECTORIES ON MHHUB IF NEEDED OR WANTED. */

DATA ADD_INFO;
LENGTH TARGET $3 ;
SET PASS.PWORD;
WHOGETS=BNUM ;
LOCUS=LOCUS1;
TARGET=SUBSTR(LOCUS,1,3);

PROC SORT DATA=ADD_INFO;
BY WHOGETS;

DATA CUTDOWN1;
LENGTH B $3 ;
SET TEMP;
B=SUBSTR(WHOGETS,1,3);

PROC SORT DATA=CUTDOWN1;
BY B;

DATA CUTDOWN2;
SET CUTDOWN1;
BY B;
IF FIRST.B;

PROC SORT DATA=CUTDOWN2;
BY WHOGETS;

/* PWORD HAS AN ENTRY FOR EVERY BOARD. THE OUTPUT HERE, GOVERNED BY WHOGET */
/* VALUES IS LIKELY ONLY A SUBSET OF ALL BOARDS -- THIS MERGE CUTS DOWN TO */
/* ONLY THOSE BOARDS NEEDED BEING PUT INTO THE SCRIPT -- MEANS EVENTUAL */
/* SCRIPT USED NEEDS SEE NO ERROR MESSAGES. */

DATA DOGGIE;
MERGE ADD_INFO (IN=IN1)
      CUTDOWN2 (IN=IN2);
BY WHOGETS;
IF IN2=1 ;
RUN;

/* WRITES OUT SCRIPT. THIS FILE SHOULD BE FTE'ED TO MHDW IN ASCII MODE. NOTE */
/* THE PDF'S CONSTRUCTED SHOULD BE FTP'ED IN BINARY MODE! */

DATA SCRIPT_WRITER;
SET DOGGIE ;
T2=TARGET || '.' || "&SYSDATE" || '.encrypted.outliers.provider.mcd.zip';
T3=TARGET || '*.PDF';

DATA _NULL_ ;
SET SCRIPT_WRITER END=EOF;

FILE SCRIPT NOPRINT ;

IF _N_ = 1 THEN DO;
PUT
@1 '#!/usr/bin/ksh'
@1 / '# getalong.proc.mcd.doggies for ' "&SYSDATE9"
@1 / '# Distribute Claims Notify Files on mhub'
@1 / '# Originally Developed by JPRM: May 17, 2001'
@1 / '# ' ;
END;

PUT
```

MACSIS Technical Support
March, 2008 (JPRM)

```
@1 '#'
@1 / 'pkzipc -add -cryptalgorithm=aes,256 -passphrase=' pw_phrase ' ' T2 ' ' T3
@1 / '#'
@1 / 'ftp -n mhhub.odn.state.oh.us <<END' bnum
@1 / 'user ' signon ' ' pword
@1 / 'cd /county/' locus
@1 / 'pwd'
@1 / 'put ' @6 whogets $CHAR3. @9 '*.zip'
@1 / 'quit'
@1 / 'END' bnum
@1 / '#';

IF EOF THEN DO ;
PUT
@1 'echo ALL DONE';
END;

RETURN;
RUN;

DATA _NULL_;
CALL SYSTEM('cd /sasdata/hipaa/outliers/test/provmcd/');
CALL SYSTEM('chmod 770 ftp.outlier.mcd.prov.reports');
CALL SYSTEM('ftp.outlier.mcd.prov.reports');
CALL SYSTEM('cd /sasdata/hipaa/outliers/test/provmcd/');
CALL SYSTEM('rm -f * ');
RUN;
/* AN EMAIL IS SENT TO JP ANNOUNCING THE COMPLETION OF THE PROGRAM */
/* WHEN WE WISH, WE CAN EXPAND THE AUTOMATION HERE AND NOTIFY THE */
/* APUPD FOLKS OR EVEN THE BOARDS. */

filename outbox email "macsisupport@mh.state.oh.us";
data _null_;
retain numb total;
set TEMP end=eof;

file outbox

subject="HIPAA MCD PROV: &SYSDATE"
;

if _n_ = 1 then do ;
numb = 0 ;
total = 0;
put
@1 / 'To Whom it May Concern,'
@1 / ' '
@1 / 'This weeks MCD Provider by Board Reports'
@1 / 'involved the following Boards:
@1 / ' ' ;
end;

numb + 1;
total = total + count;

put @1 numb      3.0
    @10 whogets
    @20 count     comma10.0;

if eof then do;
put
    // @20 total comma10.0
    // @5  "This action performed at %SYSFUNC(DATETIME()),DATETIME()."
;
end;

RUN;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
DATA _NULL_ ; /* DOCUMENTATION */

/* ===== December, 2003 */
/* outs.prov.non.4.sas */
/* ----- */
/*
/* ADJUST CLAIM LENGTH INFO 3 TIMES - JUNE, 07 */
/*
/* ACCOMDATING WESTERN RESERVE SPLIT IN JULY */
/* OF 2007 */
/* ----- */

RUN;

OPTIONS ORIENTATION=LANDSCAPE;
RUN;

LIBNAME PASS v9 '/sasdata/claims';
LIBNAME CLAIMS v9 '/sasdata/hipaa/claims';
libname cycle v9 '/sasdata/hipaa/outliers/test/provnon/dummy.dat';
libname library v9 '/sasdata/library_9';

FILENAME SCRIPT '/sasdata/hipaa/outliers/test/provnon/ftp.outlier.non.prov.reports';
%LET storage=/sasdata/hipaa/outliers/test/provnon/;

DATA START;
SET CLAIMS.HNONOUT;
IF PROCSTAT = 'U';

* THIS IS ORIGINAL 2002 DOUG DAY DELELTE REQUEST ;
* ADJUSTED IN FEB OF 2008 TO ALLOW MUSKINGUM OUTLIERS ;
* THOURGH THE 6755 FILTER ;

IF PROVNO = '000000006755' THEN DO;

    IF CKEY = 'AD' AND COMPANY NE 'MUSKB' THEN DELETE ;

END;
RUN;

DATA ONE;
LENGTH CLAIM $12 UPI 4 BCHECK $3 ;
SET START;
    UPI= PUT(PROVNO,12.);
VERIFIED = ' ';
BCHECK = SUBSTR(BATCH,2,3);

IF SUBSTR(CLAIMNO,1,6) = '000000'
    THEN DO;
CLAIM = SUBSTR(CLAIMNO,6);
END;

    FORMAT SDATE INDATE MMDDYY8. ;
INFORMAT SDATE INDATE MMDDYY8. ;
RUN;

DATA TWO;
LENGTH W $3 ;
SET ONE;

IF SLICER IN ('1') AND COMPANY = 'LORAA' THEN W = '47A';
IF SLICER IN ('1') AND COMPANY = 'LORAM' THEN W = '47M';
IF SLICER IN ('r') THEN W = '02B';
IF SLICER IN ('Z') THEN W = '03B';
IF SLICER IN ('e') THEN W = '05B';
IF SLICER IN ('f') THEN W = '07B';
IF SLICER IN ('K') THEN W = '09B';
IF SLICER IN ('E') THEN W = '12B';
IF SLICER IN ('5') THEN W = '13B';
IF SLICER IN ('R','T') AND CKEY = 'AD' THEN W = '18A';
```

MACSIS Technical Support
March, 2008 (JPRM)

```
IF SLICER IN ('C','T') AND CKEY = 'MH' THEN W = '18M';
IF SLICER IN ('6') THEN W = '20B';
IF SLICER IN ('t') THEN W = '22B';
IF SLICER IN ('P') THEN W = '23B';
IF SLICER IN ('F') THEN W = '25B';
IF SLICER IN ('g') THEN W = '27B';
IF SLICER IN ('q') THEN W = '77B';
IF SLICER IN ('7') THEN W = '28B';
IF SLICER IN ('J','N') AND CKEY = 'AD' THEN W = '31A';
IF SLICER IN ('H','N') AND CKEY = 'MH' THEN W = '31M';
IF SLICER IN ('u') THEN W = '39B';
IF SLICER IN ('a') THEN W = '41B';
IF SLICER IN ('8') THEN W = '43B';
IF SLICER IN ('X') THEN W = '45B';
IF SLICER IN ('V','L','D') THEN W = '48B';
IF SLICER IN ('b') THEN W = '50B';
IF SLICER IN ('2') AND COMPANY IN ('MAHOA','MAHOM') THEN W = '50B';
IF SLICER IN ('Q') THEN W = '52B';
IF SLICER IN ('W') THEN W = '55B';
IF SLICER IN ('M') THEN W = '57B';
IF SLICER IN ('h') THEN W = '60B';
IF SLICER IN ('w') THEN W = '68B';
IF SLICER IN ('x') THEN W = '69B';
IF SLICER IN ('n') THEN W = '70B';
IF SLICER IN ('Y') THEN W = '71B';
IF SLICER IN ('d') THEN W = '73B';
IF SLICER IN ('S','3','s') THEN W = '76B';
IF SLICER IN ('2') AND COMPANY IN ('TRUMB') THEN W = '76B';
* IF SLICER IN ('2') THEN W = '78B';
IF SLICER IN ('m') THEN W = '79B';
IF SLICER IN ('v') THEN W = '81B';
IF SLICER IN ('B') THEN W = '83B';
IF SLICER IN ('k') THEN W = '84B';
IF SLICER IN ('y') THEN W = '87B';
IF SLICER IN ('4') THEN W = '90A';

IF SLICER = ' ' THEN DO;
    W=SUBSTR(BATCH,2,3) ;
END;

WHOGETS=W || '.' || trim(left(upi));
RUN;

TITLE ' ' ;

OPTIONS PAGENO=1 DATE;

/* THIS IS VERY IMPORTANT STEP. THE TEMP FILE CREATED HERE GOVERNS MUCH THAT */
/* HAPPENS LATER. THE TEMP DATASET CONTAINS ONE RECORD FOR EVERY LEVEL OF THE */
/* WHOGETS VARIABLE .. EVERY BOARD.UPI COMBINATION IN THE DATASET. THIS FILE */
/* PROVIDES INFO USED TO GOVERN THE FILE CONSTRUCTION LATER. */

PROC FREQ DATA=TWO;
TABLES WHOGETS / OUT=TEMP NOPRINT ;

* PROC FSEDIT DATA=TEMP;
RUN;

PROC PRINT UNIFORM DATA=TEMP;
VAR WHOGETS COUNT ;
SUM COUNT;
TITLE 'NOTIFY REPORTS - PROVIDER LEVEL NON MEDICAID QUICK COUNTS';
TITLE2 "THESE FILES CREATED ON &SYSDATE9";
FOOTNOTE ' ' ;
RUN;

TITLE ' ' ;
FOOTNOTE ' ' ;
RUN;

/* THIS IS JUST HOOPIE STUFF. FOR SOME REASON I WANTED A MORE COMPLEX */
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* SUMMARY OF WHAT RECORDS WERE BEING OUTPUT. THE DATA SET AND TABULATE */
/* SIMPLY GET THAT DONE. */

DATA CHECK;
SET TWO;
TYPE1 = 0;
TYPE2 = 0;
IF QUANTITY GT 5 THEN TYPE1 = 1;
IF ALLOWED GE 400 THEN TYPE2 = 1;
BOARD=SUBSTR(WHOGETS,1,3);
RUN;

/* THE LITTLE ODS LINE HERE STOPS A PARALLEL COPY OF EACH PDF FROM BEING */
/* SIMULTANEOUSLY BEING WRITTEN TO OUTPUT WINDOW AS WELL AS PDF. NOT A */
/* BIG DEAL HERE, CAN BE IN THE REMIT AND TRACKING PROGRAMS WHICH CREATE */
/* THOUSANDS OF FILES AND OVERFLOW THE OUTPUT WINDOW! */

ODS LISTING CLOSE;
RUN;

/* BIG TIME IMPORANT STEP: THIS CREATES A WHOLE BUNCH OF (GLOBAL) MACRO */
/* VARIABLES, ONE FOR EVERY LEVEL OF WHOGETS. THIS STEP CREATES THREE THINGS */
/* THE NAME OF THE MACRO VARIABLE SERIES, EACH VALUE, AND A SINGLE MAX MACRO VARIABLE */
/* SO IN THE JULY 21 RUN, SOME 55 "MA" MACRO VARIABLES WERE CREATED, MA1 THRU */
/* MA55 ... and MAX HAD A VALLUE OF 55. WHOGETS HAD 55 LEVELS. */
/* MA1 WAS 02B.1003, MA2 was 05B.1018 */
/* YOU CAN SEE ALL THESE BY USING A "%PUT _ALL%;" LINE IN AFTER THE REST OF PROGRAM. */

DATA _NULL_ ;
SET TEMP;
call symput('MA'||left(put(_n_,3.)), trim(left(WHOGETS)));
call symput('MAX' , left(put(_n_,3.)));
RUN;

/* HERE COMES THE MACRO DEFINITION. THIS MACRO GETS CALLED OR EXECUTED LATER, */
/* THIS IS JUST THE DEFINITION. DON'T BE CONFUSED. CODE IS COMPILED NOW BUT */
/* EXECUTED LATER WHEN THE MACRO IS "CALLED." THE MACROS IS NAMED */
/* GENCODE1 -- GENERATE CODE 1 */

%macro gencodel;
  %do i=1 %to &max;

    /* OK, THE MACRO IS TOLD TO REPEAT THE ENCLOSED DATA STEP "MAX" TIMES, */
    /* START WITH I=1 AND DO THE STEP REPEATEDLY TILL I=MAX. SO EXECUTE */
    /* THE CODE BELOW ONCE FOR EVERY LEVEL OF WHOGETS (ON JULY 21, 55 TIMES) */

    OPTIONS CENTER PAGENO=1 NODATE LS=175 ;

    DATA ONEPASS;
      SET TWO;
      IF WHOGETS="&&ma&i" ;

      /* SO ON FIRST PASS: I=1 AND &&MA&I RESOLVES TO MA1 WHICH HAS A VALUE OF 02B.1003 */
      /* ON PASS 55: I=55 AND &&MA&I RESOLVES TO 83B.8434 (AT LEAST ON JULY 21) */
      /* ----- */
      /* ON EACH PASS, DATA SET ONE IS SUBSET TO A "ONEPASS" SET OF RECORDS: FIRST TIME */
      /* FOR WHOGETS VALUE OF 02B.1103, ETC. THE REMAINING CODE CREATED MACROVARIABLES */
      /* TO BE USED IN TITLES AND EVEN IN THE FILE NAME CONSTRUCTION. SO THIS IS USING */
      /* DATA VALUES TO HAVE FILENAME AND TITLES CHANGE WITH EACH PASS THROUGH */

      name1=put(upi,provf.);
      place_name=name1 || ' (' || W || '-' || trim(left(upi)) || ')';
      call symput('who',left(compress(whogets)));
      call symput('pname',trim(left(place_name)));
    RUN;

    /* NOW THE ACTUAL PDF OUPUT. NOTE IS NOW USING "NATIVE" PDF ENGINE. SO ACRABAT */
    /* WRITE SOFTWARE NO LONGER CALLED OR NEEDED. THIS REQUIRES VERSION 8.2 -- THIS */
    /* CODE WORKS UNDER PC OR UNIX VERSION OF 8.2 */
    /* NOTE: IT IS IMPT TO THE SCRIPT THAT FILENAME BE ALL IN CAPS! */
  %end;

```

**MACSIS Technical Support
March, 2008 (JPRM)**

```
ods printer PDF
      file="&storage&who..HIPAA.PROV.CAUTION.NON.&when..PDF";

TITLE1 "Provider by Board Data Quality(Notify)Report for NON-MEDICAID for &pname :
&SYSDATE9" ;
TITLE2 "Please note these claims were added into MACSIS between &BEGIN and &END ";
TITLE4 'Because providers either (1) reported a large number of service units or (2) specify
more than $400' ;
TITLE5 '(Allowed Amount)we believe you should verify these claims before they are finalized
(in APUPD).';

FOOTNOTE 'Reviewer Signature: _____ Date:
____/____/____ ' ;
FOOTNOTE3 'Printed Name: _____ ' ;

FOOTNOTE5 'This information is confidential and protected by Sect. 42 CFR, Part 2, Federal
confidentiality rules.' ;
FOOTNOTE6 'Further disclosure is prohibited by the Federal rules unless expressly permitted
by written consent of' ;
FOOTNOTE7 'the person to whom it pertains or as otherwise permitted by 42 CFR, Part 2.' ;

PROC PRINT UNIFORM LABEL DATA=ONEPASS;
VAR Verified CLAIM SDATE UDEF2 BATCH SUBNO PROCCODE PROCMOD GLREF MEDDEF CLMSTAT
PROCSTAT BILLAMT ALLOWED QUANTITY;
LABEL BATCH = 'Batch';
LABEL Verified = 'Verify';
LABEL PROCMOD = 'MOD';
LABEL PROCSTAT = 'PS';
LABEL CLMSTAT = 'CS';
LABEL PROCCODE = 'PROC.';
FORMAT BILLAMT ALLOWED 7.2 ;
FORMAT QUANTITY 4.1 ;
LABEL BILLAMT = 'BILLED';
LABEL ALLOWED = 'ALLOW';
LABEL QUANTITY = 'UNITS';
LABEL UDEF2 = 'PAT_CON';
LABEL SDATE = 'DOS';
LABEL MEDDEF = 'MEDDEF';

RUN;

ods printer close ;
RUN;

%end;

%mend gencodel;

/* HERE IS THE ONE AND ONLY REAL MACRO CALL */

%gencodel
run;

/* THIS LINE TURNS BACK ON THE USE OF THE OUTPUT WINDOW */

ODS LISTING ;
RUN;

/* THE PASSWORD FILE USED TO BUILD AUTOMATING SCRIPT FOR FTP OF DATA FILE */
/* FROM MHDW TO PROPER AREAS ON MHHUB. PWORD IS MAINTAINED ON MHDW BY */
/* JP AND CONTAINS LATEST BOARD FTP ACCOUNT PASSWORDS. */
/* ----- */
/* THE PWORD VARIABLES NAMES DON'T FIT AND NEED RENAMING .. I WAS LEAVING */
/* CONCEPTUAL SPACE IN PWORD TO DO OTHER THINGS LATER, LIKE SUPPORT DIF */
/* OUTPUT DIRECTORIES ON MHHUB IF NEEDED OR WANTED. */

DATA ADD_INFO;
LENGTH TARGET $3 ;
SET PASS.PWORD;
WHOGETS=BNUM ;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
LOCUS=LOCUS1;
TARGET=SUBSTR(LOCUS,1,3);

PROC SORT DATA=ADD_INFO;
BY WHOGETS;

DATA CUTDOWN1;
LENGTH B $3 ;
SET TEMP;
B=SUBSTR(WHOGETS,1,3);

PROC SORT DATA=CUTDOWN1;
BY B;

DATA CUTDOWN2;
SET CUTDOWN1;
BY B;
IF FIRST.B;

PROC SORT DATA=CUTDOWN2;
BY WHOGETS;

/* PWORD HAS AN ENTRY FOR EVERY BOARD. THE OUTPUT HERE, GOVERNED BY WHOGET */
/* VALUES IS LIKELY ONLY A SUBSET OF ALL BOARDS -- THIS MERGE CUTS DOWN TO */
/* ONLY THOSE BOARDS NEEDED BEING PUT INTO THE SCRIPT -- MEANS EVENTUAL */
/* SCRIPT USED NEEDS SEE NO ERROR MESSAGES. */

DATA DOGGIE;
MERGE ADD_INFO (IN=IN1)
      CUTDOWN2 (IN=IN2);
BY WHOGETS;
IF IN2=1 ;
RUN;

/* WRITES OUT SCRIPT. THIS FILE SHOULD BE FTE'ED TO MHDW IN ASCII MODE. NOTE */
/* THE PDF'S CONSTRUCTED SHOULD BE FTP'ED IN BINARY MODE! */

DATA SCRIPT_WRITER;
SET DOGGIE;
T2=TARGET || '.' || "&SYSDATE" || '.encrypted.outliers.provider.nonmcd.zip';
T3=TARGET || '*.PDF';

DATA _NULL_ ; SET SCRIPT_WRITER END=EOF ;

FILE SCRIPT NOPRINT ;

IF _N_ = 1 THEN DO;
PUT
@1 '#!/usr/bin/ksh'
@1 / '# getalong.prov.nonmcd.doggies for ' "&SYSDATE9"
@1 / '# Distribute Claims Notify Files on mhub'
@1 / '# Originally Developed by JPRM: May 17, 2001'
@1 / '# ' ;
END;

PUT
@1 '#'
@1 / 'pkzipc -add -cryptalgorithm=aes,256 -passphrase=' pw_phrase ' ' T2 ' ' T3
@1 / '#'
@1 / 'ftp -n mhub.odn.state.oh.us <<END' bnum
@1 / 'user ' signon ' ' pword
@1 / 'cd /county/' locus
@1 / 'pwd'
@1 / 'put ' @6 whogets $CHAR3. @9 '*.zip'
@1 / 'quit'
@1 / 'END' bnum
@1 / '#';

IF EOF THEN DO ;
PUT
@1 'echo ALL DONE';
```

MACSIS Technical Support
March, 2008 (JPRM)

```
END;

RETURN;
RUN;

DATA _NULL_;
  CALL SYSTEM('cd /sasdata/hipaa/outliers/test/provnon/');
  CALL SYSTEM('chmod 770 ftp.outlier.non.prov.reports');
  CALL SYSTEM('ftp.outlier.non.prov.reports');
  CALL SYSTEM('cd /sasdata/hipaa/outliers/test/provnon/');
  CALL SYSTEM('rm -f * ');
RUN;

/* AN EMAIL IS SENT TO JP ANNOUNCING THE COMPLETION OF THE PROGRAM */
/* WHEN WE WISH, WE CAN EXPAND THE AUTOMATION HERE AND NOTIFY THE */
/* APUPD FOLKS OR EVEN THE BOARDS. */

filename outbox email "macsissupport@mh.state.oh.us";

data _null_;
  retain numb total ;
  set TEMP end=eof;

  file outbox

  subject="HIPAA NON PROV: &SYSDATE"
  ;

  if _n_ = 1 then do ;
    numb = 0 ;
    total = 0 ;
    put
    @1 / 'To Whom it May Concern,'
    @1 / ' '
    @1 / 'This weeks Provider by Board Notify/Caution Reports about NONMCD Claims (by Provider)'
    @1 / 'have completed. The following were involved: '
    @1 / ' ' ;
    end;

    numb +1;
    total = total + count ;
    put @2 numb 3.
        @10 whogets
        @20 count comma10.0;

  if eof then do;
    put
    // @20 total comma10.0
    // @4 "This action performed at %SYSFUNC(DATETIME()),DATETIME.)."
    ;
  end;

RUN;
```

The corresponding 4 HOLDS Programs

```
/* ===== December, 2003 */
/* holds.board.mcd.1.sas */
/* ----- */
/*
/* ADJUSTING CLAIM LENGTH INFO 4 TIMES - JUNE,07 */
/*
/* ACCOMDATING WESTERN RESERVE SPLIT IN JULY */
/* OF 2007 */
/*
/* ADJUSTING FOR ENCRYPTED OUTPUT: OCT, 2007 */
/* ----- */

libname pass v9 '/sasdata/claims/';
libname claims v9 '/sasdata/hipaa/claims/';
libname library v9 '/sasdata/library_9';

filename cycle '/sasdata/hipaa/holds/test/bdmcd/dummy.dat';
filename script '/sasdata/hipaa/holds/test/bdmcd/ftp.holds.mcd.board.reports';

%LET STORAGE=/sasdata/hipaa/holds/test/bdmcd/;

* DOUG DAY REQUESTED DELETE IN DATA START BELOW ;
* CARRIED OVER FROM ORIGINAL MHPROD PROGRAM ;

DATA START;
SET CLAIMS.HMCDOUT;
IF PROCSTAT = 'H' ;
IF CKEY = 'AD' AND
PROVNO = '000000006755' THEN DELETE ;

DATA ONE;
LENGTH CLAIM $12 UPI 4;
SET START;
UPI=PUT(PROVNO,12.);

IF SUBSTR(CLAIMNO,1,6) = '000000'
THEN DO;
CLAIM = SUBSTR(CLAIMNO,6);
END;
format sdate indate mmddy8.;
informat sdate indate mmddy8. ;
RUN;

DATA TWO;
LENGTH W $3 ;
SET ONE;

IF SLICER IN ('1') AND COMPANY = 'LORAA' THEN W = '47A';
IF SLICER IN ('1') AND COMPANY = 'LORAM' THEN W = '47M';
IF SLICER IN ('r') THEN W = '02B';
IF SLICER IN ('Z') THEN W = '03B';
IF SLICER IN ('e') THEN W = '05B';
IF SLICER IN ('f') THEN W = '07B';
IF SLICER IN ('K') THEN W = '09B';
IF SLICER IN ('E') THEN W = '12B';
IF SLICER IN ('5') THEN W = '13B';
IF SLICER IN ('R','T') AND CKEY = 'AD' THEN W = '18A';
IF SLICER IN ('C','T') AND CKEY = 'MH' THEN W = '18M';
IF SLICER IN ('6') THEN W = '20B';
IF SLICER IN ('t') THEN W = '22B';
IF SLICER IN ('P') THEN W = '23B';
IF SLICER IN ('F') THEN W = '25B';
IF SLICER IN ('g') THEN W = '27B';
IF SLICER IN ('q') THEN W = '77B';
IF SLICER IN ('7') THEN W = '28B';
IF SLICER IN ('J','N') AND CKEY = 'AD' THEN W = '31A';
IF SLICER IN ('H','N') AND CKEY = 'MH' THEN W = '31M';
```

MACSIS Technical Support
March, 2008 (JPRM)

```
IF SLICER IN ('u') THEN W = '39B';
IF SLICER IN ('a') THEN W = '41B';
IF SLICER IN ('8') THEN W = '43B';
IF SLICER IN ('X') THEN W = '45B';
IF SLICER IN ('V','L','D') THEN W = '48B';
IF SLICER IN ('b') THEN W = '50B';
IF SLICER IN ('2') AND COMPANY IN ('MAHOA','MAHOM') THEN W = '50B';
IF SLICER IN ('Q') THEN W = '52B';
IF SLICER IN ('W') THEN W = '55B';
IF SLICER IN ('M') THEN W = '57B';
IF SLICER IN ('h') THEN W = '60B';
IF SLICER IN ('w') THEN W = '68B';
IF SLICER IN ('x') THEN W = '69B';
IF SLICER IN ('n') THEN W = '70B';
IF SLICER IN ('Y') THEN W = '71B';
IF SLICER IN ('d') THEN W = '73B';
IF SLICER IN ('S','3','s') THEN W = '76B';
IF SLICER IN ('2') AND COMPANY IN ('TRUMB') THEN W = '76B';
* IF SLICER IN ('2') THEN W = '78B';
IF SLICER IN ('m') THEN W = '79B';
IF SLICER IN ('v') THEN W = '81B';
IF SLICER IN ('B') THEN W = '83B';
IF SLICER IN ('k') THEN W = '84B';
IF SLICER IN ('y') THEN W = '87B';
IF SLICER IN ('4') THEN W = '90A';
```

```
IF SLICER = ' ' THEN DO;
    W=SUBSTR(BATCH,2,3) ;
END;
```

```
WHOGETS=W ;
WHO=W;
```

```
OPTIONS NOCENTER DATE ;
```

```
TITLE 'HIPAA HOLDS BOARD MCD';
PROC FREQ DATA=TWO;
TABLES WHOGETS / OUT=TEMP NOPRINT ;
```

```
DATA SCRIPT_INFO;
SET TEMP;
*PROC FSEdit;
RUN;
```

```
PROC PRINT UNIFORM DATA=TEMP;
VAR WHOGETS COUNT ;
SUM COUNT;
TITLE 'Cross Reference Page - Medicaid Board';
TITLE2 "These Files should have been Created on &SYSDATE9";
FOOTNOTE ' ' ;
RUN;
```

```
OPTIONS PAGENO=1 DATE CENTER;
```

```
DATA CHECK;
SET TWO;
TYPE1 = 0;
TYPE2 = 0;
IF QUANTITY GT 5 THEN TYPE1 = 1;
IF ALLOWED GE 400 THEN TYPE2 = 1;
```

```
ODS LISTING CLOSE;
RUN;
```

```
DATA _NULL_ ;
SET TEMP;
call symput('MA' || left(put(_n_,3.)), trim(left(WHOGETS)));
call symput('MAX' , left(put(_n_,3.)));
run;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* USE MACRO VARIABLES mal-ma&max AND mbl-mb&max TO GENERATE */
/* A SERIES OF SUBSETTING DATA/PROC STEPS. */

%macro gencodel;
  %do i=1 %to &max;

    /* IF VERSION 5, USE THE FOLLOWING SUBSETTING DATA STEP. */
    options pageno=1 nodate ls=132;
    data temp;
    set TWO;
    if WHOGETS="&&ma&i" ;
    call symput('who',left(compress(whogets)));
  run;

  ods printer PDF
    file="&storage&who..HIPAA.BD.HOLD.MCD.&when..PDF";

  TITLE1 "Board Summary HOLD Report for MCD Claims: &SYSDATE9" ;
  TITLE2 "Please note these claims were added into MACSIS between &BEGIN and &END ";
  TITLE4 'These claims either (1) report a large number of service units or (2) specify more
    than $400 (Allowed Amount)' ;
  TITLE5 'and were placed in a "HOLD" Processing Status with Pricing and Adjudication.';

  FOOTNOTE 'This information is confidential and protected by Sect. 42 CFR, Part 2, Federal
    confidentiality rules.';
  FOOTNOTE2 'Further disclosure is prohibited by the Federal rules unless expressly permitted
    by written consent of';
  FOOTNOTE3 'the person to whom it pertains or as otherwise permitted by 42 CFR, Part 2.';

  DATA _NULL_;
  SET TEMP ;

  PROC PRINT UNIFORM LABEL ;
  VAR CLAIM SDATE SUBNO UPI PROCCODE WHAT PROCSTAT ALLOWED QUANTITY;
  FORMAT CLAIM $CHAR12.; LABEL SUBNO = 'UCI';
  FORMAT PROCCODE $CHAR8. ; FORMAT WHAT $CHAR25. ;
  FORMAT SDATE MMDDYY8. ; LABEL SDATE = 'DOS';
  FORMAT ALLOWED DOLLAR8.2 ;
  FORMAT QUANTITY 6.1; LABEL QUANTITY = 'UNITS';

  RUN;
  ods printer close ;
  RUN;

  %end;

%mend gencodel;

%gencodel
run;
ODS LISTING ;
RUN;

DATA ADD_INFO;
LENGTH TARGET $3 ;
SET PASS.PWORD;
WHOGETS=BNUM ;
LOCUS=LOCUS1;
TARGET=SUBSTR(LOCUS,1,3);

PROC SORT DATA=ADD_INFO;
BY WHOGETS;

PROC SORT DATA=SCRIPT_INFO;
BY WHOGETS;

DATA DOGGIE;
MERGE ADD_INFO (IN=IN1)
      SCRIPT_INFO (IN=IN2);
```

MACSIS Technical Support
March, 2008 (JPRM)

```
BY WHOGETS;
IF IN2=1 ;

* PROC FSEDIT DATA=DOGGIE;
RUN;

DATA SCRIPT_WRITER;
SET DOGGIE ;
T2=TARGET || '.' || "&SYSDATE" || '.encrypted.holds.board.mcd.zip';
T3=TARGET || '*.PDF';

DATA _NULL_;
SET SCRIPT_WRITER END=EOF;

FILE SCRIPT NOPRINT ;

IF _N_ = 1 THEN DO;
PUT
@1 '#!/usr/bin/ksh'
@1 / '# getalong.board.mcd.doggies for ' "&SYSDATE9"
@1 / '# Distribute Claims Notify Files on mhub'
@1 / '# Originally Developed by JPRM: May 17, 2001'
@1 / '# ' ;
END;

PUT
@1 '#'
@1 / 'pkzipc -add -cryptalgorithm=aes,256 -passphrase=' pw_phrase ' ' T2 ' ' T3
@1 / '#'
@1 / 'ftp -n mhub.odn.state.oh.us <<END' bnum
@1 / 'user ' signon ' ' pword
@1 / 'cd /county/' locus
@1 / 'pwd'
@1 / 'put ' @6 whogets $CHAR3. @9 '*.zip'
@1 / 'quit'
@1 / 'END' bnum
@1 / '#';

IF EOF THEN DO ;
PUT
@1 'echo ALL DONE';
END;

RETURN;
RUN;

DATA _NULL_;
SET ONE(OBS=1);
CALL SYSTEM('cd /sasdata/hipaa/holds/test/bdmcd/');
CALL SYSTEM('chmod 770 ftp.holds.mcd.board.reports');
CALL SYSTEM('ftp.holds.mcd.board.reports');
CALL SYSTEM('cd /sasdata/hipaa/holds/test/bdmcd/');
CALL SYSTEM('rm -f * ');
RUN;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* ===== December 2003 */
/* holds.board.non.2.sas */
/* ----- */
/* ADJUST CLAIM LENGTH INFO 4 TIMES - JUNE,07 */
/* ACCOMDATING WESTERN RESERVE SPLIT IN JULY OF 2007 */
/* ACCOMDATING ENCRYPTION EFFORT, OCT 07 */
/* ----- */

LIBNAME PASS v9 '/sasdata/claims';
LIBNAME CLAIMS v9 '/sasdata/hipaa/claims';
LIBNAME LIBRARY v9 '/sasdata/library_9';

filename cycle '/sasdata/hipaa/holds/test/bdnon/dummy.dat';
filename script '/sasdata/hipaa/holds/test/bdnon/ftp.holds.non.board.reports';

%LET STORAGE=/sasdata/hipaa/holds/test/bdnon/;

DATA START;
SET CLAIMS.HNONOUT;
IF PROCSTAT = 'H';
IF CKEY = 'AD' AND
PROVNO = '00000006755' THEN DELETE ;

DATA ONE;
LENGTH CLAIM $12 UPI 4;
SET START;

UPI=PUT(PROVNO,12.);

IF SUBSTR(CLAIMNO,1,6) = '000000'
THEN DO;
CLAIM = SUBSTR(CLAIMNO,6);
END;
format sdate indate mmddy8.;
informat sdate indate mmddy8. ;
RUN;

DATA TWO;
LENGTH W $3 ;
SET ONE;

IF SLICER IN ('1') AND COMPANY = 'LORAA' THEN W = '47A';
IF SLICER IN ('1') AND COMPANY = 'LORAM' THEN W = '47M';
IF SLICER IN ('r') THEN W = '02B';
IF SLICER IN ('Z') THEN W = '03B';
IF SLICER IN ('e') THEN W = '05B';
IF SLICER IN ('f') THEN W = '07B';
IF SLICER IN ('K') THEN W = '09B';
IF SLICER IN ('E') THEN W = '12B';
IF SLICER IN ('5') THEN W = '13B';
IF SLICER IN ('R','T') AND CKEY = 'AD' THEN W = '18A';
IF SLICER IN ('C','T') AND CKEY = 'MH' THEN W = '18M';
IF SLICER IN ('6') THEN W = '20B';
IF SLICER IN ('t') THEN W = '22B';
IF SLICER IN ('P') THEN W = '23B';
IF SLICER IN ('F') THEN W = '25B';
IF SLICER IN ('g') THEN W = '27B';
IF SLICER IN ('q') THEN W = '77B';
IF SLICER IN ('7') THEN W = '28B';
IF SLICER IN ('J','N') AND CKEY = 'AD' THEN W = '31A';
IF SLICER IN ('H','N') AND CKEY = 'MH' THEN W = '31M';
IF SLICER IN ('u') THEN W = '39B';
IF SLICER IN ('a') THEN W = '41B';
IF SLICER IN ('8') THEN W = '43B';
IF SLICER IN ('X') THEN W = '45B';
IF SLICER IN ('V','L','D') THEN W = '48B';
```

MACSIS Technical Support
March, 2008 (JPRM)

```
IF SLICER IN ('b') THEN W = '50B';
IF SLICER IN ('2') AND COMPANY IN ('MAHOA','MAHOM') THEN W = '50B';
IF SLICER IN ('Q') THEN W = '52B';
IF SLICER IN ('W') THEN W = '55B';
IF SLICER IN ('M') THEN W = '57B';
IF SLICER IN ('h') THEN W = '60B';
IF SLICER IN ('w') THEN W = '68B';
IF SLICER IN ('x') THEN W = '69B';
IF SLICER IN ('n') THEN W = '70B';
IF SLICER IN ('Y') THEN W = '71B';
IF SLICER IN ('d') THEN W = '73B';
IF SLICER IN ('S','3','s') THEN W = '76B';
IF SLICER IN ('2') AND COMPANY IN ('TRUMB') THEN W = '76B';
* IF SLICER IN ('2') THEN W = '78B';
IF SLICER IN ('m') THEN W = '79B';
IF SLICER IN ('v') THEN W = '81B';
IF SLICER IN ('B') THEN W = '83B';
IF SLICER IN ('k') THEN W = '84B';
IF SLICER IN ('y') THEN W = '87B';
IF SLICER IN ('4') THEN W = '90A';
```

```
IF SLICER = ' ' THEN DO;
  W=SUBSTR(BATCH,2,3) ;
END;
```

```
WHOGETS=W ;
WHO=W;
```

```
OPTIONS NOCENTER DATE ;
```

```
TITLE 'HOLDS BOARD NON REPORTS';
PROC FREQ DATA=TWO;
TABLES WHOGETS / OUT=TEMP NOPRINT ;
```

```
DATA SCRIPT_INFO;
SET TEMP;
*PROC FSEDIT;
RUN;
```

```
PROC PRINT UNIFORM DATA=TEMP;
VAR WHOGETS COUNT ;
SUM COUNT;
TITLE 'Cross Reference Page: Non-MCD';
TITLE2 "These Files should have been Created on &SYSDATE9";
FOOTNOTE ' ' ;
RUN;
```

```
DATA CHECK;
SET TWO;
TYPE1 = 0;
TYPE2 = 0;
IF QUANTITY GT 5 THEN TYPE1 = 1;
IF ALLOWED GE 400 THEN TYPE2 = 1;
```

```
OPTIONS PAGENO=1 DATE;
RUN;
ODS LISTING CLOSE;
RUN;
```

```
DATA _NULL_ ;
SET TEMP;
call symput('MA' || left(put(_n_,3.)), trim(left(WHOGETS)));
call symput('MAX' , left(put(_n_,3.)));
run;
```

```
/* USE MACRO VARIABLES mal-ma&max AND mbl-mb&max TO GENERATE */
/* A SERIES OF SUBSETTING DATA/PROC STEPS. */
```

```
%macro gencodel;
  %do i=1 %to &max;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* IF VERSION 5, USE THE FOLLOWING SUBSETTING DATA STEP.      */
options pageno=1 nodate ls=132;
data temp;
set TWO;
if WHOGETS="&&ma&i" ;
call symput('who',left(compress(whogets)));
run;

ods printer PDF
      file="&storage&who..HIPAA.BD.HOLD.NON.&when..PDF";

TITLE1 "Board Level HOLD Non-Medicaid Report for: &SYSDATE9" ;
TITLE2 "Please note these claims were added into MACSIS between &BEGIN and &END ";
TITLE4 'Because they either (1) report a large number of service units or (2) specify more
      than $400 (Allowed Amount)' ;
TITLE5 'and were placed in HOLD Processing Status during Pricing and Adjudication.';

FOOTNOTE 'This information is confidential and protected by Sect. 42 CFR, Part 2, Federal
      confidentiality rules.';
FOOTNOTE2 'Further disclosure is prohibited by the Federal rules unless expressly permitted
      by written consent of';
FOOTNOTE3 'the person to whom it pertains or as otherwise permitted by 42 CFR, Part 2.';

DATA _NULL_;
SET TEMP ;

PROC PRINT UNIFORM LABEL ;
VAR CLAIM SDATE SUBNO UPI PROCEDURE WHAT PROCSTAT ALLOWED QUANTITY;
FORMAT CLAIM $CHAR12.; LABEL SUBNO = 'UCI';
FORMAT PROCEDURE $CHAR8. ; FORMAT WHAT $CHAR25. ;
FORMAT SDATE MMDDYY8. ; LABEL SDATE = 'DOS';
FORMAT ALLOWED DOLLAR8.2 ;
FORMAT QUANTITY 6.1; LABEL QUANTITY = 'UNITS';

RUN;
ods printer close ;
RUN;

      %end;

%mend gencodel;

%gencodel
run;
ODS LISTING ;
RUN;

DATA ADD_INFO;
LENGTH TARGET $3 ;
SET PASS.PWORD;
WHOGETS=BNUM ;
LOCUS=LOCUS1;
TARGET=SUBSTR(LOCUS,1,3);

PROC SORT DATA=ADD_INFO;
BY WHOGETS;

PROC SORT DATA=SCRIPT_INFO;
BY WHOGETS;

DATA DOGGIE;
MERGE ADD_INFO (IN=IN1)
      SCRIPT_INFO (IN=IN2);
BY WHOGETS;
IF IN2=1 ;

* PROC FSEDIT DATA=DOGGIE;
RUN;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
DATA SCRIPT_WRITER;
SET DOGGIE ;
T2=TARGET || '.' || "&SYSDATE" || '.encrypted.holds.board.nonmcd.zip';
T3=TARGET || '*.PDF';

DATA _NULL_;
SET SCRIPT_WRITER END=EOF ;

FILE SCRIPT NOPRINT ;

IF _N_ = 1 THEN DO;
PUT
@1 '#!/usr/bin/ksh'
@1 / '# getalong.nonmcd.doggies for ' "&SYSDATE9"
@1 / '# Distribute Claims Notify Files on mhhub'
@1 / '# Originally Developed by JPRM: May 17, 2001'
@1 / '# ' ;
END;

PUT
@1 '# '
@1 / 'pkzipc -add -cryptalgorithm=aes,256 -passphrase=' pw_phrase ' ' T2 ' ' T3
@1 / '# '
@1 / 'ftp -n mhhub.odn.state.oh.us <<END' bnum
@1 / 'user ' signon ' ' pword
@1 / 'cd /county/' locus
@1 / 'pwd'
@1 / 'put ' @6 whogets $CHAR3. @9 '*.zip'
@1 / 'quit'
@1 / 'END' bnum
@1 / '# ' ;

IF EOF THEN DO ;
PUT
@1 'echo ALL DONE';
END;

RETURN;
RUN;

DATA _NULL_;
SET ONE(OBS=1);
CALL SYSTEM('cd /sasdata/hipaa/holds/test/bdnon/');
CALL SYSTEM('chmod 770 ftp.holds.non.board.reports');
CALL SYSTEM('ftp.holds.non.board.reports');
CALL SYSTEM('cd /sasdata/hipaa/holds/test/bdnon/');
CALL SYSTEM('rm -f * ');
RUN;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* ===== December, 2003 */
/* holds.prov.mcd.3.sas */
/* ----- */
/* ----- */
/* ADJUST CLAIM LENGTH 3 TIMES - JUNE, 07 */
/* ----- */
/* ACCOMDATING WESTERN RESERVE SPLIT IN JULY */
/* OF 2007 */
/* ----- */
/* ACCOMODATING ENCRYPTION EFFORT, OCT-07 */
/* ----- */
/* ----- */

RUN;

OPTIONS ORIENTATION=LANDSCAPE;
RUN;

LIBNAME PASS v9 '/sasdata/claims';
LIBNAME CLAIMS v9 '/sasdata/hipaa/claims';
LIBNAME LIBRARY v9 '/sasdata/library_9';

FILENAME cycle '/sasdata/hipaa/holds/test/provmcd/dummy.dat';
FILENAME SCRIPT '/sasdata/hipaa/holds/test/provmcd/ftp.holds.mcd.prov.reports' ;

%LET storage=/sasdata/hipaa/holds/test/provmcd/;

DATA START;
SET CLAIMS.HMCDOUT;
IF PROCSTAT = 'H';
IF CKEY = 'AD' AND PROVNO = '00000006755' THEN DELETE ;
RUN;

DATA ONE;
LENGTH CLAIM $12 UPI 4 BCHECK $3 ;
SET START;
UPI= PUT(PROVNO,12.);
VERIFIED = ' ';
BCHECK = SUBSTR(BATCH,2,3);

IF SUBSTR(CLAIMNO,1,6) = '000000'
THEN DO;
CLAIM = SUBSTR(CLAIMNO,6);
END;

FORMAT SDATE INDATE MMDDYY8. ;
INFORMAT SDATE INDATE MMDDYY8. ;
RUN;

DATA TWO;
LENGTH W $3 ;
SET ONE;

IF SLICER IN ('1') AND COMPANY = 'LORAA' THEN W = '47A';
IF SLICER IN ('1') AND COMPANY = 'LORAM' THEN W = '47M';
IF SLICER IN ('r') THEN W = '02B';
IF SLICER IN ('Z') THEN W = '03B';
IF SLICER IN ('e') THEN W = '05B';
IF SLICER IN ('f') THEN W = '07B';
IF SLICER IN ('K') THEN W = '09B';
IF SLICER IN ('E') THEN W = '12B';
IF SLICER IN ('5') THEN W = '13B';
IF SLICER IN ('R','T') AND CKEY = 'AD' THEN W = '18A';
IF SLICER IN ('C','T') AND CKEY = 'MH' THEN W = '18M';
IF SLICER IN ('6') THEN W = '20B';
IF SLICER IN ('t') THEN W = '22B';
IF SLICER IN ('P') THEN W = '23B';
IF SLICER IN ('F') THEN W = '25B';
IF SLICER IN ('g') THEN W = '27B';
IF SLICER IN ('q') THEN W = '77B';
```

MACSIS Technical Support
March, 2008 (JPRM)

```
IF SLICER IN ('7') THEN W = '28B';
IF SLICER IN ('J','N') AND CKEY = 'AD' THEN W = '31A';
IF SLICER IN ('H','N') AND CKEY = 'MH' THEN W = '31M';
IF SLICER IN ('u') THEN W = '39B';
IF SLICER IN ('a') THEN W = '41B';
IF SLICER IN ('8') THEN W = '43B';
IF SLICER IN ('X') THEN W = '45B';
IF SLICER IN ('V','L','D') THEN W = '48B';
IF SLICER IN ('b') THEN W = '50B';
IF SLICER IN ('2') AND COMPANY IN ('MAHOA','MAHOM') THEN W = '50B';
IF SLICER IN ('Q') THEN W = '52B';
IF SLICER IN ('W') THEN W = '55B';
IF SLICER IN ('M') THEN W = '57B';
IF SLICER IN ('h') THEN W = '60B';
IF SLICER IN ('w') THEN W = '68B';
IF SLICER IN ('x') THEN W = '69B';
IF SLICER IN ('n') THEN W = '70B';
IF SLICER IN ('Y') THEN W = '71B';
IF SLICER IN ('d') THEN W = '73B';
IF SLICER IN ('S','3','s') THEN W = '76B';
IF SLICER IN ('2') AND COMPANY IN ('TRUMB') THEN W = '76B';
* IF SLICER IN ('2') THEN W = '78B';
IF SLICER IN ('m') THEN W = '79B';
IF SLICER IN ('v') THEN W = '81B';
IF SLICER IN ('B') THEN W = '83B';
IF SLICER IN ('k') THEN W = '84B';
IF SLICER IN ('y') THEN W = '87B';
IF SLICER IN ('4') THEN W = '90A';

IF SLICER = ' ' THEN DO;
  W=SUBSTR(BATCH,2,3) ;
END;

WHOGETS=W || '.' || trim(left(upi));

RUN;
TITLE ' ' ;

OPTIONS NOCENTER ;

PROC FREQ DATA=TWO;
TABLES WHOGETS / OUT=TEMP NOPRINT ;
RUN;

PROC PRINT UNIFORM DATA=TEMP;
VAR WHOGETS COUNT ;
SUM COUNT;
TITLE 'MCD NOTIFY REPORTS BY BOARD-PROVIDER COMBINATION - QUICK COUNT';
TITLE2 "THESE FILES CREATED ON &SYSDATE9";
FOOTNOTE ' ' ;
RUN;

TITLE ' ' ;
FOOTNOTE ' ' ;
RUN;

OPTIONS PAGENO=1 DATE CENTER;
DATA CHECK;
SET TWO;
TYPE1 = 0;
TYPE2 = 0;
IF QUANTITY GT 5 THEN TYPE1 = 1;
IF ALLOWED GE 400 THEN TYPE2 = 1;
BOARD=SUBSTR(WHOGETS,1,3);

/* THE LITTLE ODS LINE HERE STOPS A PARALLEL COPY OF EACH PDF FROM BEING */
/* SIMULTANEOUSLY BEING WRITTEN TO OUTPUT WINDOW AS WELL AS PDF. NOT A */
/* BIG DEAL HERE, CAN BE IN THE REMIT AND TRACKING PROGRAMS WHICH CREATE */
/* THOUSANDS OF FILES AND OVERFLOW THE OUTPUT WINDOW! */
```

MACSIS Technical Support
March, 2008 (JPRM)

```
ODS LISTING CLOSE;
RUN;

/* BIG TIME IMPORANT STEP: THIS CREATES A WHOLE BUNCH OF (GLOBAL) MACRO          */
/* VARIABLES, ONE FOR EVERY LEVEL OF WHOGETS. THIS STEP CREATES THREE THINGS    */
/* THE NAME OF THE MACRO VARIABLE SERIES, EACH VALUE, AND A SINGLE MAX MACRO VARIABLE */
/* SO IN THE JULY 21 RUN, SOME 55 "MA" MACRO VARIABLES WERE CREATED, MA1 THRU    */
/* MA55 ... and MAX HAD A VALLUE OF 55. WHOGETS HAD 55 LEVELS.                 */
/* MA1 WAS 02B.1003, MA2 was 05B.1018                                          */
/* YOU CAN SEE ALL THESE BY USING A "%PUT _ALL_;" LINE IN AFTER THE REST OF PROGRAM. */

DATA _NULL_ ;
SET TEMP;
call symput('MA' || left(put(_n_,3.)), trim(left(WHOGETS)));
call symput('MAX'          , left(put(_n_,3.)));
RUN;

/* HERE COMES THE MACRO DEFINITION. THIS MACRO GETS CALLED OR EXECUTED LATER, */
/* THIS IS JUST THE DEFINITION. DON'T BE CONFUSED. CODE IS COMPILED NOW BUT  */
/* EXECUTED LATER WHEN THE MACRO IS "CALLED." THE MACROS IS NAMED             */
/* GENCODE1 -- GENERATE CODE 1                                               */

%macro gencodel;
  %do i=1 %to &max;

    /* OK, THE MACRO IS TOLD TO REPEAT THE ENCLOSED DATA STEP "MAX" TIMES,    */
    /* START WITH I=1 AND DO THE STEP REPEATEDLY TILL I=MAX. SO EXECUTE       */
    /* THE CODE BELOW ONCE FOR EVERY LEVEL OF WHOGETS (ON JULY 21, 55 TIMES)  */

    OPTIONS CENTER PAGENO=1 NODATE LS=175 ;

    DATA ONEPASS;
      SET TWO;
      IF WHOGETS="&&ma&i" ;

      /* SO ON FIRST PASS: I=1 AND &&MA&I RESOLVES TO MA1 WHICH HAS A VALUE OF 02B.1003 */
      /* ON PASS 55: I=55 AND &&MA&I RESOLVES TO 83B.8434 (AT LEAST ON JULY 21)          */
      /* -----                                                                    */
      /* ON EACH PASS, DATA SET ONE IS SUBSET TO A "ONEPASS" SET OF RECORDS: FIRST TIME */
      /* FOR WHOGETS VALUE OF 02B.1103, ETC. THE REMAINING CODE CREATED MACROVARIABLES    */
      /* TO BE USED IN TITLES AND EVEN IN THE FILE NAME CONSTRUCTION. SO THIS IS USING   */
      /* DATA VALUES TO HAVE FILENAME AND TITLES CHANGE WITH EACH PASS THROUGH       */

      namel=put(upi,provf.);
      place_name=namel || ' (' || W || '-' || trim(left(upi)) || ')';
      call symput('who',left(compress(whogets)));
      call symput('pname',trim(left(place_name)));
      RUN;

      /* NOW THE ACTUAL PDF OUPUT. NOTE IS NOW USING "NATIVE" PDF ENGINE. SO ACROBAT    */
      /* WRITE SOFTWARE NO LONGER CALLED OR NEEDED. THIS REQUIRES VERSION 8.2 -- THIS  */
      /* CODE WORKS UNDER PC OR UNIX VERSION OF 8.2                                  */
      /* NOTE: IT IS IMPT TO THE SCRIPT THAT FILENAME BE ALL IN CAPS!                */

ods printer PDF
      file="&storage&who..HIPAA.PROV.HOLD.MCD.&when..PDF";

TITLE1 "By Provider MCD Data Quality(Notify)Report for CLAIMS ON HOLD for &pname :
&SYSDATE9" ;
TITLE2 "Please note these claims were added into MACSIS between &BEGIN and &END " ;
TITLE4 'Because providers either (1)reported a large number of service units or (2) specify
more than $400' ;
TITLE5 '(Allowed Amount)we believe you should verify these claims before they are finalized
(in APUPD).';

FOOTNOTE 'Reviewer Signature: _____ Date:
____/____/____ ' ;
FOOTNOTE3 'Printed Name: _____';
```

MACSIS Technical Support
March, 2008 (JPRM)

FOOTNOTE5 'This information is confidential and protected by Sect. 42 CFR, Part 2, Federal confidentiality rules.';
FOOTNOTE6 'Further disclosure is prohibited by the Federal rules unless expressly permitted by written consent of';
FOOTNOTE7 'the person to whom it pertains or as otherwise permitted by 42 CFR, Part 2.';

```
PROC PRINT UNIFORM LABEL DATA=ONEPASS;  
VAR Verified CLAIM SDATE UDEF2 BATCH SUBNO PROCCODE PROCMOD GLREF MEDDEF CLMSTAT  
PROCSTAT BILLAMT ALLOWED QUANTITY;  
LABEL BATCH = 'Batch';  
LABEL Verified = 'Verify';  
LABEL PROCMOD = 'MOD';  
LABEL PROCSTAT = 'PS';  
LABEL CLMSTAT = 'CS';  
LABEL PROCCODE = 'PROC.';  
FORMAT BILLAMT ALLOWED 7.2 ;  
FORMAT QUANTITY 4.1 ;  
LABEL BILLAMT = 'BILLED';  
LABEL ALLOWED = 'ALLOW';  
LABEL QUANTITY = 'UNITS';  
LABEL UDEF2 = 'PAT_CON';  
LABEL SDATE = 'DOS';  
LABEL MEDDEF = 'MEDDEF';
```

RUN;

```
ods printer close ;  
RUN;
```

%end;

%mend gencode1;

```
/* HERE IS THE ONE AND ONLY REAL MACRO CALL */
```

```
%gencode1  
run;
```

```
/* THIS LINE TURNS BACK ON THE USE OF THE OUTPUT WINDOW */
```

```
ODS LISTING ;  
RUN;
```

```
DATA ADD_INFO;  
LENGTH TARGET $3;  
SET PASS.PWORD;  
WHOGETS=BNUM ;  
LOCUS=LOCUS1;  
TARGET=SUBSTR(LOCUS,1,3);
```

```
PROC SORT DATA=ADD_INFO;  
BY WHOGETS;
```

```
DATA CUTDOWN1;  
LENGTH B $3 ;  
SET TEMP;  
B=SUBSTR(WHOGETS,1,3);
```

```
PROC SORT DATA=CUTDOWN1;  
BY B;
```

```
DATA CUTDOWN2;  
SET CUTDOWN1;  
BY B;  
IF FIRST.B;
```

```
PROC SORT DATA=CUTDOWN2;  
BY WHOGETS;
```

```
/* PWORD HAS AN ENTRY FOR EVERY BOARD. THE OUTPUT HERE, GOVERNED BY WHOGET */
```

MACSIS Technical Support
March, 2008 (JPRM)

```
/* VALUES IS LIKELY ONLY A SUBSET OF ALL BOARDS -- THIS MERGE CUTS DOWN TO */
/* ONLY THOSE BOARDS NEEDED BEING PUT INTO THE SCRIPT -- MEANS EVENTUAL */
/* SCRIPT USED NEEDS SEE NO ERROR MESSAGES. */

DATA DOGGIE;
MERGE ADD_INFO (IN=IN1)
      CUTDOWN2 (IN=IN2);
BY WHOGETS;
IF IN2=1 ;
RUN;

/* WRITES OUT SCRIPT. THIS FILE SHOULD BE FTE'ED TO MHDW IN ASCII MODE. NOTE */
/* THE PDF'S CONSTRUCTED SHOULD BE FTP'ED IN BINARY MODE! */

DATA SCRIPT_WRITER;
SET DOGGIE ;
T2=TARGET || '.' || "&SYSDATE" || '.encrypted.holds.provider.mcd.zip';
T3=TARGET || '*.PDF';

DATA _NULL_;
SET SCRIPT_WRITER END=EOF;

FILE SCRIPT NOPRINT ;

IF _N_ = 1 THEN DO;
PUT
@1 '#!/usr/bin/ksh'
@1 / '# getalong.proc.mcd.doggies for ' "&SYSDATE9"
@1 / '# Distribute Claims Notify Files on mhub'
@1 / '# Originally Developed by JPRM: May 17, 2001'
@1 / '# ' ;
END;

PUT
@1 '# '
@1 / 'pkzipc -add -cryptalgorithm=aes,256 -passphrase=' pw_phrase ' ' T2 ' ' T3
@1 / '# '
@1 / 'ftp -n mhub.odn.state.oh.us <<END' bnum
@1 / 'user ' signon ' ' pword
@1 / 'cd /county/' locus
@1 / 'pwd'
@1 / 'put ' @6 whogets $CHAR3. @9 '*.zip'
@1 / 'quit'
@1 / 'END' bnum
@1 / '# ' ;

IF EOF THEN DO ;
PUT
@1 'echo ALL DONE';
END;

RETURN;
RUN;

DATA _NULL_;
CALL SYSTEM('cd /sasdata/hipaa/holds/test/provmcd/');
CALL SYSTEM('chmod 770 ftp.holds.mcd.prov.reports');
CALL SYSTEM('ftp.holds.mcd.prov.reports');
CALL SYSTEM('cd /sasdata/hipaa/holds/test/provmcd/');
CALL SYSTEM('rm -f * ');
RUN;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
DATA _NULL_ ; /* DOCUMENTATION */

/* ===== December, 2003 */
/* holds.prov.non.4.sas */
/* ----- */
/* ----- */
/* ADJUST CLAIM LENGTH INFO 3 TIMES - JUNE, 07 */
/* ----- */
/* ACCOMDATING WESTERN RESERVE SPLIT IN JULY */
/* OF 2007 */
/* ----- */
/* ACCOMDATING ENCRYPTION EFFORT - OCT OF 07 */
/* ----- */

RUN;

LIBNAME PASS v9 '/sasdata/claims';
LIBNAME CLAIMS v9 '/sasdata/hipaa/claims';
LIBNAME LIBRARY v9 '/sasdata/library_9';

FILENAME cycle '/sasdata/hipaa/holds/test/provnon/dummy.dat';
FILENAME SCRIPT '/sasdata/hipaa/holds/test/provnon/ftp.holds.non.prov.reports';

%LET storage=/sasdata/hipaa/holds/test/provnon/;

DATA START;
SET CLAIMS.HNONOUT;
IF PROCSTAT = 'H';
IF CKEY = 'AD' AND PROVNO = '000000006755' THEN DELETE ;
RUN;

DATA ONE;
LENGTH CLAIM $12 UPI 4 BCHECK $3 ;
SET START;
UPI= PUT(PROVNO,12.);
VERIFIED = ' ';
BCHECK = SUBSTR(BATCH,2,3);

IF SUBSTR(CLAIMNO,1,6) = '000000'
THEN DO;
CLAIM = SUBSTR(CLAIMNO,6);
END;

FORMAT SDATE INDATE MMDDYY8. ;
INFORMAT SDATE INDATE MMDDYY8. ;
RUN;

DATA TWO;
LENGTH W $3 ;
SET ONE;

IF SLICER IN ('1') AND COMPANY = 'LORAA' THEN W = '47A';
IF SLICER IN ('1') AND COMPANY = 'LORAM' THEN W = '47M';
IF SLICER IN ('r') THEN W = '02B';
IF SLICER IN ('Z') THEN W = '03B';
IF SLICER IN ('e') THEN W = '05B';
IF SLICER IN ('f') THEN W = '07B';
IF SLICER IN ('K') THEN W = '09B';
IF SLICER IN ('E') THEN W = '12B';
IF SLICER IN ('5') THEN W = '13B';
IF SLICER IN ('R','T') AND CKEY = 'AD' THEN W = '18A';
IF SLICER IN ('C','T') AND CKEY = 'MH' THEN W = '18M';
IF SLICER IN ('6') THEN W = '20B';
IF SLICER IN ('t') THEN W = '22B';
IF SLICER IN ('P') THEN W = '23B';
IF SLICER IN ('F') THEN W = '25B';
IF SLICER IN ('g') THEN W = '27B';
IF SLICER IN ('q') THEN W = '77B';
IF SLICER IN ('7') THEN W = '28B';
```

MACSIS Technical Support
March, 2008 (JPRM)

```
IF SLICER IN ('J','N') AND CKEY = 'AD' THEN W = '31A';
IF SLICER IN ('H','N') AND CKEY = 'MH' THEN W = '31M';
IF SLICER IN ('u') THEN W = '39B';
IF SLICER IN ('a') THEN W = '41B';
IF SLICER IN ('8') THEN W = '43B';
IF SLICER IN ('X') THEN W = '45B';
IF SLICER IN ('V','L','D') THEN W = '48B';
IF SLICER IN ('b') THEN W = '50B';
IF SLICER IN ('2') AND COMPANY IN ('MAHOA','MAHOM') THEN W = '50B';
IF SLICER IN ('Q') THEN W = '52B';
IF SLICER IN ('W') THEN W = '55B';
IF SLICER IN ('M') THEN W = '57B';
IF SLICER IN ('h') THEN W = '60B';
IF SLICER IN ('w') THEN W = '68B';
IF SLICER IN ('x') THEN W = '69B';
IF SLICER IN ('n') THEN W = '70B';
IF SLICER IN ('Y') THEN W = '71B';
IF SLICER IN ('d') THEN W = '73B';
IF SLICER IN ('S','3','s') THEN W = '76B';
IF SLICER IN ('2') AND COMPANY IN ('TRUMB') THEN W = '76B';
* IF SLICER IN ('2') THEN W = '78B';
IF SLICER IN ('m') THEN W = '79B';
IF SLICER IN ('v') THEN W = '81B';
IF SLICER IN ('B') THEN W = '83B';
IF SLICER IN ('k') THEN W = '84B';
IF SLICER IN ('y') THEN W = '87B';
IF SLICER IN ('4') THEN W = '90A';

IF SLICER = ' ' THEN DO;
    W=SUBSTR(BATCH,2,3) ;
END;

WHOGETS=W || '.' || trim(left(upi));

RUN;
TITLE ' ' ;

PROC FREQ DATA=TWO;
TABLES WHOGETS / OUT=TEMP NOPRINT ;

* PROC FSEDIT DATA=TEMP;
RUN;

OPTIONS NOCENTER ;

PROC PRINT UNIFORM DATA=TEMP;
VAR WHOGETS COUNT ;
SUM COUNT;
TITLE 'NOTIFY REPORTS - PROVIDER LEVEL NON MEDICAID QUICK COUNTS';
TITLE2 "THESE FILES CREATED ON &SYSDATE9";
FOOTNOTE ' ' ;
RUN;

TITLE ' ' ;
FOOTNOTE ' ' ;
RUN;

/* THIS IS JUST HOOPIE STUFF. FOR SOME REASON I WANTED A MORE COMPLEX */
/* SUMMARY OF WHAT RECORDS WERE BEING OUTPUT. THE DATA SET AND TABULATE */
/* SIMPLY GET THAT DONE. */

OPTIONS ORIENTATION=LANDSCAPE;
OPTIONS PAGENO=1 DATE CENTER;
RUN;
DATA CHECK;
SET TWO;
TYPE1 = 0;
TYPE2 = 0;
IF QUANTITY GT 5 THEN TYPE1 = 1;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
IF ALLOWED GE 400 THEN TYPE2 = 1;
BOARD=SUBSTR(WHOGETS,1,3);

/* THE LITTLE ODS LINE HERE STOPS A PARALLEL COPY OF EACH PDF FROM BEING */
/* SIMULTANEOUSLY BEING WRITTEN TO OUTPUT WINDOW AS WELL AS PDF. NOT A */
/* BIG DEAL HERE, CAN BE IN THE REMIT AND TRACKING PROGRAMS WHICH CREATE */
/* THOUSANDS OF FILES AND OVERFLOW THE OUTPUT WINDOW! */

ODS LISTING CLOSE;
RUN;

/* BIG TIME IMPORANT STEP: THIS CREATES A WHOLE BUNCH OF (GLOBAL) MACRO */
/* VARIABLES, ONE FOR EVERY LEVEL OF WHOGETS. THIS STEP CREATES THREE THINGS */
/* THE NAME OF THE MACRO VARIABLE SERIES, EACH VALUE, AND A SINGLE MAX MACRO VARIABLE */
/* SO IN THE JULY 21 RUN, SOME 55 "MA" MACRO VARIABLES WERE CREATED, MA1 THRU */
/* MA55 ... and MAX HAD A VALLUE OF 55. WHOGETS HAD 55 LEVELS. */
/* MA1 WAS 02B.1003, MA2 was 05B.1018 */
/* YOU CAN SEE ALL THESE BY USING A "%PUT _ALL%;" LINE IN AFTER THE REST OF PROGRAM. */

DATA _NULL_ ;
SET TEMP;
call symput('MA' || left(put(_n_,3.)), trim(left(WHOGETS)));
call symput('MAX' , left(put(_n_,3.)));
RUN;

/* HERE COMES THE MACRO DEFINITION. THIS MACRO GETS CALLED OR EXECUTED LATER, */
/* THIS IS JUST THE DEFINITION. DON'T BE CONFUSED. CODE IS COMPILED NOW BUT */
/* EXECUTED LATER WHEN THE MACRO IS "CALLED." THE MACROS IS NAMED */
/* GENCODE1 -- GENERATE CODE 1 */

%macro gencodel;
  %do i=1 %to &max;

    /* OK, THE MACRO IS TOLD TO REPEAT THE ENCLOSED DATA STEP "MAX" TIMES, */
    /* START WITH I=1 AND DO THE STEP REPEATEDLY TILL I=MAX. SO EXECUTE */
    /* THE CODE BELOW ONCE FOR EVERY LEVEL OF WHOGETS (ON JULY 21, 55 TIMES) */

    OPTIONS CENTER PAGENO=1 NODATE LS=175 ;

    DATA ONEPASS;
      SET TWO;
      IF WHOGETS="&&ma&i" ;

      /* SO ON FIRST PASS: I=1 AND &&MA&I RESOLVES TO MA1 WHICH HAS A VALUE OF 02B.1003 */
      /* ON PASS 55: I=55 AND &&MA&I RESOLVES TO 83B.8434 (AT LEAST ON JULY 21) */
      /* ----- */
      /* ON EACH PASS, DATA SET ONE IS SUBSET TO A "ONEPASS" SET OF RECORDS: FIRST TIME */
      /* FOR WHOGETS VALUE OF 02B.1103, ETC. THE REMAINING CODE CREATED MACROVARIABLES */
      /* TO BE USED IN TITLES AND EVEN IN THE FILE NAME CONSTRUCTION. SO THIS IS USING */
      /* DATA VALUES TO HAVE FILENAME AND TITLES CHANGE WITH EACH PASS THROUGH */

      name1=put(upi,provf.);
      place_name=name1 || ' (' || W || '-' || trim(left(upi)) || ')';
      call symput('who',left(compress(whogets)));
      call symput('pname',trim(left(place_name)));
      RUN;

      /* NOW THE ACTUAL PDF OUPUT. NOTE IS NOW USING "NATIVE" PDF ENGINE. SO ACROBAT */
      /* WRITE SOFTWARE NO LONGER CALLED OR NEEDED. THIS REQUIRES VERSION 8.2 -- THIS */
      /* CODE WORKS UNDER PC OR UNIX VERSION OF 8.2 */
      /* NOTE: IT IS IMPT TO THE SCRIPT THAT FILENAME BE ALL IN CAPS! */

ods printer PDF
  file="&storage&who..HIPAA.PROV.HOLD.NON.&when..PDF" ;

TITLE1 "By Provider Data Quality(Notify)Report for CLAIMS ON HOLD (NON-MEDICAID) for &pname
: &SYSDATE9" ;
TITLE2 "Please note these claims were added into MACSIS between &BEGIN and &END " ;
TITLE4 'Because providers either (1)reported a large number of service units or (2) specify
more than $400' ;
```

MACSIS Technical Support
March, 2008 (JPRM)

TITLE5 '(Allowed Amount)we believe you should verify these claims before they are finalized
(in APUPD).';

FOOTNOTE 'Reviewer Signature: _____ Date:
____/____/____ ';

FOOTNOTE3 'Printed Name: _____';

FOOTNOTE5 'This information is confidential and protected by Sect. 42 CFR, Part 2, Federal
confidentiality rules.';

FOOTNOTE6 'Further disclosure is prohibited by the Federal rules unless expressly permitted
by written consent of';

FOOTNOTE7 'the person to whom it pertains or as otherwise permitted by 42 CFR, Part 2.';

```
PROC PRINT UNIFORM LABEL DATA=ONEPASS;
VAR Verified CLAIM SDATE UDEF2 BATCH SUBNO PROCCODE PROCMOD GLREF MEDDEF CLMSTAT
PROCSTAT BILLAMT ALLOWED QUANTITY;
LABEL BATCH = 'Batch';
LABEL Verified = 'Verify';
LABEL PROCMOD = 'MOD';
LABEL PROCSTAT = 'PS';
LABEL CLMSTAT = 'CS';
LABEL PROCCODE = 'PROC.';
FORMAT BILLAMT ALLOWED 7.2 ;
FORMAT QUANTITY 4.1 ;
LABEL BILLAMT = 'BILLED';
LABEL ALLOWED = 'ALLOW';
LABEL QUANTITY = 'UNITS';
LABEL UDEF2 = 'PAT_CON';
LABEL SDATE = 'DOS';
LABEL MEDDEF = 'MEDDEF';
```

RUN;

ods printer close ;
RUN;

%end;

%mend gencodel;

/* HERE IS THE ONE AND ONLY REAL MACRO CALL */

%gencodel
run;

/* THIS LINE TURNS BACK ON THE USE OF THE OUTPUT WINDOW */

ODS LISTING ;
RUN;

```
DATA ADD_INFO;
LENGTH TARGET $3 ;
SET PASS.PWORD;
WHOGETS=BNUM ;
LOCUS=LOCUS1;
TARGET=SUBSTR(LOCUS,1,3);
```

```
PROC SORT DATA=ADD_INFO;
BY WHOGETS;
```

```
DATA CUTDOWN1;
LENGTH B $3 ;
SET TEMP;
B=SUBSTR(WHOGETS,1,3);
```

```
PROC SORT DATA=CUTDOWN1;
BY B;
```

```
DATA CUTDOWN2;
```

MACSIS Technical Support
March, 2008 (JPRM)

```
SET CUTDOWN1;
BY B;
IF FIRST.B;

PROC SORT DATA=CUTDOWN2;
BY WHOGETS;

/* PWORD HAS AN ENTRY FOR EVERY BOARD. THE OUTPUT HERE, GOVERNED BY WHOGET */
/* VALUES IS LIKELY ONLY A SUBSET OF ALL BOARDS -- THIS MERGE CUTS DOWN TO */
/* ONLY THOSE BOARDS NEEDED BEING PUT INTO THE SCRIPT -- MEANS EVENTUAL */
/* SCRIPT USED NEEDS SEE NO ERROR MESSAGES. */

DATA DOGGIE;
MERGE ADD_INFO (IN=IN1)
      CUTDOWN2 (IN=IN2);
BY WHOGETS;
IF IN2=1 ;
RUN;

/* WRITES OUT SCRIPT. THIS FILE SHOULD BE FTE'ED TO MHDW IN ASCII MODE. NOTE */
/* THE PDF'S CONSTRUCTED SHOULD BE FTP'ED IN BINARY MODE! */

DATA SCRIPT_WRITER;
SET DOGGIE ;
T2 = TARGET || '.' || "&SYSDATE" || '.encrypted.holds.provider.nonmcd.zip' ;
T3 = TARGET || '*.PDF';

DATA _NULL_ ;
SET SCRIPT_WRITER END=EOF;

FILE SCRIPT NOPRINT ;

IF _N_ = 1 THEN DO;
PUT
@1 '#!/usr/bin/ksh'
@1 / '# getalong.prov.nonmcd.doggies for ' "&SYSDATE9"
@1 / '# Distribute Claims Notify Files on mhhub'
@1 / '# Originally Developed by JPRM: May 17, 2001'
@1 / '# ' ;
END;

PUT
@1 '#'
@1 / 'pkzipc -add -cryptalgorithm=aes,256 -passphrase=' pw_phrase ' ' T2 ' ' T3
@1 / '#'
@1 / 'ftp -n mhhub.odn.state.oh.us <<END' bnum
@1 / 'user ' signon ' ' pword
@1 / 'cd /county/' locus
@1 / 'pwd'
@1 / 'put ' @6 whogets $CHAR3. @9 '*.zip'
@1 / 'quit'
@1 / 'END' bnum
@1 / '#';

IF EOF THEN DO ;
PUT
@1 'echo ALL DONE';
END;

RETURN;
RUN;

DATA _NULL_;
CALL SYSTEM('cd /sasdata/hipaa/holds/test/provnon/');
CALL SYSTEM('chmod 770 ftp.holds.non.prov.reports');
CALL SYSTEM('ftp.holds.non.prov.reports');
CALL SYSTEM('cd /sasdata/hipaa/holds/test/provnon/');
CALL SYSTEM('rm -f * ');
RUN;
```

**MACSIS Technical Support
March, 2008 (JPRM)**

As one can see from a review of these 9 programs there are some instances where either State or Board staff have requested the inclusion of a “filter” in this Notify process: literally for code to be developed which results in the intentional non-reporting or exclusion of some records – some combination of Provider, Service, Board, etc. The following are the requested “filters” now in place:

Note: “SLICER” as referenced below is the MACSIS Security Code as found on the Claims Header in Diamond 725.

Filter #1

At the Request of Doug Day of ODADAS the following code was put in place in the original Notify Report development/implementation – pertains to Health Recovery Services (UPI:6755):

```
* THIS IS ORIGINAL 2002 DOUG DAY DELELTE REQUEST ;
* ADJUSTED IN FEB OF 2008 TO ALLOW MUSKINGUM OUTLIERS ;
* THOURGH THE 6755 FILTER ;

IF PROVNO = '000000006755' THEN DO THEN DELETE;
```

This was applied to all Holds and Outliers programs in the Notify Report process. In February of 2008 at the request of the Muskingum (60B) Board, this code was amended for the Outlier Report Series, the amended filter code looked like this:

```
IF PROVNO = '000000006755' THEN DO;

    IF CKEY = 'AD' AND COMPANY NE 'MUSKB' THEN DELETE ;

END;
```

As you can discern, the effect is to NOT delete “outlier” records if they belong to the Muskingum MACSIS Company code.

Filter #2

At the request of Sharon Baker of the Hamilton (31M) MH Board, a filter was applied to the Outlier Reports related to IKRON Corporation (UPI:6691) and The Greater Cincinnati Behavioral Health Services (UPI:6796) for some Procedure Codes in October of 2002. These were removed and replaced in December of 2002 when a new single Procedure filter was placed on Excel Development Company, Inc. (UPI:10330):

```
* SHARON BAKER, HAMILTON MH REQUEST: OCTOBER 12, 2002 ;
* ORIGINAL CODE COMMENTED OUT -- REPLACEMENT CODE DECEMBER 5, 2002 ;

* ORIGINAL CODE HERE SHARON BAKER REQUESTED EXCLUDES -- AS OF OCTOBE 12, 2002 ;
* IF SLICER IN ('H ', 'N ') AND PROVNO = '000000006691' AND SUBSTR(PROCCODE,1,7) = 'M161000'
  THEN DELETE ;
* IF SLICER IN ('H ', 'N ') AND PROVNO = '000000006796' AND SUBSTR(PROCCODE,1,7)
  IN ('M161000', 'M162000', 'M226003') THEN DELETE ;

IF SLICER IN ('H ', 'N ') AND PROVNO = '000000010330' AND SUBSTR(PROCCODE,1,5) = 'M2260' THEN
  DELETE ;
```

Filter #3

At the request of Patti Quinn of the Butler (09B) Board Consortium the following filter was placed on all Notify Reports (Holds and Outliers) for a single Procedure for Sojourner Recovery Services (UPI:2516) in July of 2006.

```
* BUTLER REQUEST: JULY 31, 2006 P.QUINN ;

IF SLICER = 'K' AND PROVNO = '000000002516' AND SUBSTR(PROCCODE,1,5) = 'T1009'
  THEN DELETE ;
```

**MACSIS Technical Support
March, 2008 (JPRM)**

These kinds of procedure and Provider combination Filters may be requested for Holds, Outliers, or both at any time. We view these Notify Reports as a service to Boards and their Providers and believe that you are easily in the best position to know when the exclusion of some records better serves efficiency and purpose here.

While MACSIS Technical staff are the programmers here, your requests for such changes are likely best submitted to the MACSIS MOM Group through the MACSIS Support Desk. When approved at that level the request will be given to the Technical staff for implementation. Remember that the Holds and Outlier Reports process is a bit more complex than most – a report is not generated unless a trigger condition claim was found for a given week. So a requested report change cannot be observed till a trigger claim occurs, etc.

If you are wondering if a particular kind of filter is possible, please do not hesitate to inquire of the MACSIS Technical staff. And please do not lose sight of that fact that the weekend Claims extract process does provide each Board or Board Consortium a complete copy of ALL claims in the Production Diamond 725 database – so there is no lack of checking or more detailed examination available for this or other Board purposes.