```
SAS User File for H206IF1 Data
This file contains information and sample SAS programs to create a permanent
SAS dataset for users who want to use SAS in processing the MEPS data
provided in this PUF release.
There are two ways to create a permanent SAS dataset, using either the SAS
transport data file (H206IF1.SSP) or the ASCII data file (H206IF1.DAT)
supplied in this PUF release. Section A provides a sample SAS program for the
first alternative, which is to convert the SAS transport data file to a
regular SAS dataset using the SAS procedure: CIMPORT. Section B provides a
sample SAS program for the second alternative, which is to read data from the
ASCII data file using a SAS DATA step with INFILE, INPUT, and LABEL
statements. Section C explains format-related SAS statements that a user may
optionally use when working with the SAS dataset. Examples of SAS programs
(DATA step or PROC) are provided in all three sections, primarily for the
benefit of inexperienced users. Section D contains complete SAS statements
that must be used in the programs described in Sections B and C.
The sample SAS programs provided in Sections A and B show how to create a
permanent SAS dataset from the data files provided in this PUF release.
A. A Sample SAS Program for Converting the SAS Transport File to a
Permanent SAS Dataset
The SAS procedure CIMPORT will read a SAS transport file and convert the
data to regular SAS format, storing the output in a permanent SAS dataset.
This permanent SAS dataset can then be used for all future processing and
analyses.
Below is a sample SAS program that can be used to convert the SAS transport
file to a permanent SAS dataset (in a Windows environment).
     LIBNAME PUFLIB 'C:\MEPS\SASDATA';
     FILENAME IN1 'C:\MEPS\DOWNLOAD\H206IF1.SSP';
     PROC CIMPORT DATA=PUFLIB.H206IF1 INFILE=IN1;
     RUN;
Below are SAS statements to print a list of variables and a few sample records
from the permanent SAS dataset:
     PROC CONTENTS DATA=PUFLIB.H206IF1;
     TITLE 'List of Variables in MEPS H206IF1 SAS Dataset';
     RUN;
     PROC PRINT DATA=PUFLIB.H206IF1 (OBS=20);
     TITLE 'First 20 Observations in MEPS H206IF1 SAS Dataset';
     RUN;
The LIBNAME statement tells SAS the location (directory name) to store the
permanent SAS dataset which is output by PROC CIMPORT. The FILENAME statement
tells SAS the location (complete directory and file name) of the input SAS
transport data file.
NOTES:
     1) The names used in the LIBNAME and FILENAME statements shown
     above (i.e., PUFLIB, IN1) are arbitrary; they are only temporary
     aliases.
     2) The directory and file names used in the LIBNAME and FILENAME
     statements shown above are Windows syntax and may need to be
     modified for other operating systems such as UNIX and Linux.
     3) H206IF1 is the internal SAS dataset name (also the PC file name,
     without the extension) prior to the creation of the SAS transport data
     file. After running PROC CIMPORT, the output SAS dataset assumes the same
     dataset name (or file name). Hence, in the example above, a file named
     H206IF1.SAS7BDAT will be created under the C:\MEPS\SASDATA directory when
     PROC CIMPORT runs successfully.
     4) The SAS transport file H206IF1.SSP was created from a SAS V9
     data file, using PROC CPORT. This file should work with earlier versions of
     SAS, although it has not been tested with those versions. Users who are
     unable to use this SAS transport file should instead convert the ASCII
     data file H206IF1.DAT to a SAS dataset as described in Section B.
       A Sample SAS Program for Converting the ASCII Data File to a Permanent
SAS Dataset
The complete SAS statements (INPUT and LABEL) included in Section D are
intended to save time for those users wishing to create a permanent SAS
dataset from the H206IF1.DAT ASCII data file. These statements must be used
in combination with other SAS statements to create the appropriate SAS
program, as shown below. To use the statements provided in Section D to
create a SAS program, you will need an ASCII text editor. If you are using an
interactive form of SAS (Windows, UNIX, Linux, etc.), use the editor provided as
part of the SAS software.
Following is a sample Windows SAS program that will convert the ASCII data file to SAS
format:
     LIBNAME PUFLIB 'C:\MEPS\SASDATA';
     FILENAME IN1 'C:\MEPS\DOWNLOAD\H206IF1.DAT';
```

DATA statement: This signifies the beginning of a SAS DATA step and specifies the output SAS dataset, referencing the LIBNAME entry (PUFLIB) and assigning an internal SAS dataset name (H206IF1). In the example, after the successful completion of the DATA step, a PC file named H206IF1.SAS7BDAT would have been created in the C:\MEPS\SASDATA directory.

INFILE statement: This tells SAS the location (directory and file name) of the

bytes), with the default of RECFM=V implied when this parameter is omitted. LRECL and RECFM are optional parameters in the INFILE statement. With regard to these options, please note the following: the ASCII data file H206IF1.DAT contains a 2-byte carriage return/line feed at the end of each record. When converting to a PC-SAS file, the LRECL option should be used to specify the record length to avoid use of a default record length by PC-SAS. If the RECFM=V option is used, the LRECL option must be specified as the logical record length (e.g., 71 for H206IF1.DAT). If RECFM=F is used, then the

LRECL value must be specified as the logical record length plus 2 (73 for H206IF1.DAT). Note that if the RECFM option is omitted, then the default

INPUT statement: This specifies the input record layout, giving names, the beginning column positions, and the lengths for data items (which become SAS variables) in the ASCII data file (H206IF1.DAT). Variable type (numeric or

option of RECFM=V is automatically used, and LRECL should be specified as the

character) is also defined by character variables having a dollar sign (\$) directly

before the variables length, while numeric variables do not have a dollar sign.

catalog must first be created. Below is a SAS program that will accomplish this:

VALUE; * to user: insert the complete set of VALUE statements found

input ASCII data file. Also provided is the logical record length (71

FILENAME statement: This tells SAS the location of the input ASCII data file.

INPUT; * to user: insert the complete INPUT statement that is

LABEL; * to user: insert the complete LABEL statement that is

Here is an explanation of the SAS statements used in the program above.

LIBNAME statement: This tells SAS the location (directory name) of the

DATA PUFLIB.H206IF1; INFILE IN1 LRECL=71;

provided in Section D;

provided in Section D;

permanent SAS dataset.

logical record (71 for H206IF1.DAT).

RUN;

С.

in Section D;

procedure:

format names;

RUN;

procedure.

aliases.

SAS Statements

SAS formats.

INPUT @1

@11 @24

NOTES:

'SAS7BDAT') and format

VALUE;

LABEL statement: This associates descriptive names with the SAS variables. RUN statement: This tells SAS to execute all commands up to this point.

If a user wants to use formats for the SAS variables, a SAS format

Optional Format-related SAS Statements

LIBNAME PUFLIB 'C:\MEPS\SASDATA';

LIBNAME PUFLIB 'C:\MEPS\SASDATA';

all the variables in the TABLES statement;

TITLE 'Frequency Distributions';

batch SAS program or an interactive SAS session.

using a FORMAT statement if desired.

and use them as appropriate.

DUPERSID CONDIDX

EVNTIDX

'0' < - HIGH = 'VALID ID'

'0' < - HIGH = 'VALID ID'

'0' < - HIGH = 'VALID ID'

VALUE \$CONDIDX

VALUE \$DUPERS

Here is an explanation of the SAS statements used above.

OPTIONS FMTSEARCH=(PUFLIB);

PROC FORMAT LIBRARY=PUFLIB;

```
....;
RUN;
```

Below is an example of how to use the SAS formats defined by the PROC FORMAT

```
PROC FREQ DATA=PUFLIB.H206IF1;
TABLES .... / LIST MISSING;
FORMAT varnam1 fmtnam1. Varnam2 fmtnam2. ....;
```

LIBNAME statement: This tells SAS the location (directory name) of the SAS

format library. Please note that SAS datasets (file name extension is

* to user: substitute varnaml and fmtnaml with actual variable names and

catalog (file name extension is 'SAS7BCAT') can be stored under the same directory.

if the user does not want to create a permanent SAS format library. When simply 'PROC FORMAT;' is used, the formats are defined only for the duration of the

VALUE statement: This gives a) names to formats; and b) descriptive labels for individual values, or range of values. The format names can then be invoked

FORMAT statement: This associates existing formats with variables. When using this statement, the formats must have already been created with a PROC FORMAT

RUN statement: This tells SAS to execute all commands up to this point.

1) Use of formats is entirely optional, and depends on the types of analyses that you are doing. It is recommended that you create

2) The names used in the LIBNAME and FILENAME statements shown above (i.e., PUFLIB, IN1) are arbitrary; they are only temporary

Insert the FORMAT statement provided in Section D, if you are using

PROC FORMAT statement: This identifies the SAS procedure that will make SAS formats according to VALUE statements. Formats will be stored in a file named FORMATS.SAS7BCAT. Please note that the option 'LIBRARY=...' can be omitted

OPTIONS FMTSEARCH=...: This specifies the SAS format library.

PROC FREQ statement: This identifies the SAS procedure that generates frequency distributions of variables specified in the TABLES statement, formatted if a FORMAT statement is used. The input SAS dataset is specified in the 'DATA=' option.

3) The file and directory specifications in the LIBNAME and FILENAME statements are Windows syntax and may need to be modified for other operating systems such as UNIX and Linux.

```
* INPUT STATEMENTS;
INFILE IN LRECL=71;
```

converting the ASCII H206IF1.DAT file into a SAS dataset, and for creating

This section contains SAS INPUT, LABEL, FORMAT, and VALUE statements for use in

EVNTIDX	\$EVNTIDX.	
CLNKIDX	\$CLNKIDX.	
EVENTYPE	EVENTYPE.	
PANEL	PANEL.	
ABEL STATEMENTS;		
סבד הווהבהכדה	-'DEBCON ID (DUITD + DID)'	

\$10.0

\$13.0

\$16.0

```
= 'PERSON ID (DUID + PID)
CONDIDX
                                   = 'CONDITION ID'
                                   = 'EVENT ID'
EVNTIDX
                                   = 'CLNK ID: CONDIDX + EVNTIDX'
CLNKIDX
EVENTYPE
                                   = 'TYPE OF EVENT CONDITION IS LINKED TO'
                                   = 'PANEL NUMBER'
PANEL
```

```
* VALUE STATEMENTS;
VALUE $CLNKIDX
```

```
* LA
LABEL DUPERSID
```

```
$29.0
      @40
               CLNKIDX
               EVENTYPE
      @69
                                                    1.0
      @70
               PANEL
                                                    2.0
* FORMAT STATEMENTS;
FORMAT DUPERSID
                                            $DUPERS.
       CONDIDX
                                            $CONDIDX.
```

```
VALUE EVENTYPE
  1 = '1 \text{ MVIS'}
  2 = '2 OPAT'
```

```
3 = '3 EROM'
  4 = '4 \text{ STAZ}
  7 = '7 \text{ HVIS}'
  8 = '8 PMED
VALUE $EVNTIDX
  '0' < - HIGH = 'VALID ID'
VALUE PANEL
  22 = '22 PANEL 22'
  23 = '23 PANEL 23'
```